The residency program in orthopaedic surgery provides a comprehensive educational experience in the management of diseases and injuries of the musculoskeletal system for the physician seeking accreditation as an orthopaedic surgeon. The goal of this program is to provide educational and research opportunities for candidates who desire to become a competent, ethical and board certifiable orthopaedic surgeon.

www.ortho.umn.edu
Welcome to the University of Minnesota Medical School
Department of Orthopaedic Surgery
Residency Program

Thank you for taking the time to review this booklet summarizing the educational offerings within the University of Minnesota Orthopaedic Surgery Residency Program. Our residency program is truly outstanding. Our department has a long tradition of prioritizing education through outstanding teaching, superb patient care, and commitment to advancing orthopaedics through innovation and research.

The strengths of our program lie in our absolute commitment to resident education, as well as in the talent and energy of our faculty. Across the six institutions which you will participate, you will be exposed to faculty who are outstanding individuals and excellent physicians. They will teach and guide you in acquiring the knowledge necessary to become an outstanding, ethical and compassionate orthopaedic surgeon. Many of our 60 faculty have national academic reputations. They have a steadfast commitment to education, patient care, scholarly activity, and innovation.

Our residency program is highly competitive and will provide you with the opportunities to excel in the career path of your choice. Our goal is to make sure our graduates are superbly prepared to practice as general orthopedists, compete for orthopaedic subspecialty fellowships, and/or compete and excel at careers in academic orthopaedics.

Denis R. Clohisy, M.D.
Professor and Chair, Department of Orthopaedic Surgery
Endowed Chair, Roby C. Thompson Endowment in Musculoskeletal Oncology
University of Minnesota

Thank you for your interest in the University of Minnesota Orthopaedic Surgery Residency Program. Our program has eight positions available for each class. The residency positions are offered through the Electronic Residency Application Service (ERAS) through the match at the RL-1 level.

We look forward to your application to the University of Minnesota Medical School, Department of Orthopaedic Surgery Residency Program. We are a nationally recognized and highly competitive program which will provide an education that is an excellent basis for your career as a general orthopedist, orthopaedic subspecialist, or an academic orthopaedic surgeon.

Jonathan Braman, M.D.
Residency Program Director
Associate Professor
Department of Orthopaedic Surgery
University of Minnesota
Orthopaedic Surgery Residency

**WHO ARE OUR RESIDENTS?**

For each class, what is the gender and what medical school did our residents come from?

<table>
<thead>
<tr>
<th>Class</th>
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<tbody>
<tr>
<td>Class of 2020</td>
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<td>1 - University of Vermont College of Medicine</td>
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University of Minnesota Medical Center / MHealth (UMMC) (West Bank) offers specialty service rotations in spine, sports, tumor, foot and ankle, hand, and adult reconstruction. This is the flagship hospital for the residency program and is the site for weekly program-wide grand rounds and core curriculum lectures. PGY1, 4 & 5 residents rotate at this site.

Hennepin County Medical Center (HCMC) provides trauma rotations for the residency program. It is a Level 1 trauma center with a faculty of 8 fellowship-trained traumatologists. A wide range of multi-system trauma is treated with over 2,500 operative cases and 17,000 orthopaedic visits annually. PGY3 and 5 residents rotate here.

Gillette Children’s Specialty Healthcare (GCSH) provides pediatric orthopaedic rotations for the residency program with a full-time faculty of 7 fellowship-trained pediatric orthopaedic surgeons. PGY2 and 4 residents rotate at this site.

Veterans Affairs Medical Center (VAMC) is the primary location for the adult reconstruction rotations. The Minneapolis VA Medical Center does more total joints than any other VA Medical Center in the country. This provides a well-supervised experience for the resident to learn primary and revision total joint arthroplasties and general adult orthopaedics. PGY1, 3 and 5 residents rotate here.

Regions Hospital (RGHP) provides both a Level 1 trauma rotation, as well as a private hospital environment. PGY1, 2 and 5 residents rotate at this site.

TRIA Orthopaedic Center is a specialty orthopaedic hospital. This center includes rotations in sports, hand, and foot and ankle. PGY 2, 4 and 5 residents rotate here.
<table>
<thead>
<tr>
<th>PGY - 1</th>
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<th>PGY - 3</th>
<th>PGY - 4</th>
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<td>Pediatrics Gillette Children’s Specialty Healthcare (GCSH)</td>
<td>Adult Veterans Affairs Medical Center (VAMC)</td>
<td>Adult Recon UMMC</td>
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<td>Ortho + ¹ RGHP</td>
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<td>Surgical Intensive Care UMMC</td>
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1 Ortho + rotations are specially designed to foster proficiency in basic skills and the cultivation of an orthopaedic knowledge base.
CHRISTIAN OGILVIE, M.D.
EDUCATION SITE DIRECTOR

Education:
• University of Minnesota Medical School, M.D.
• University of California San Francisco, Orthopaedic Surgery Residency
• University of Toronto, Ontario, Mount Sinai Hospital, Musculoskeletal Tumor Surgery Fellowship

Membership:
• American Academy of Orthopaedic Surgeons
• Leroy C. Abbott Orthopaedic Society
• Musculoskeletal Tumor Society
• Connective Tissue Oncology Society

Dr. Ogilvie is an Associate Professor in the Department of Orthopaedic Surgery. His clinical interests include bone tumors, including primary and metastatic tumors, soft tissue tumors, and orthopaedic trauma.
ELIZABETH ARENDT, M.D.
DEPARTMENT VICE CHAIR

Education:
• University of Rochester, Rochester, NY, B.A., M.D.
• University of Rochester, Rochester, NY, General Surgery, Residency
• University of Rochester, Rochester, NY, Orthopaedic Surgery, Residency
• University of Minnesota, Minneapolis, MN, Sports Medicine, Fellowship

Membership:
• Team Physician, Intercollegiate Athletics, University of Minnesota
• AOSSM, Education Committee
• ISAKOS, Knee Committee
• International Patellofemoral Study Group
• ESSKA
• University of Minnesota Physicians, Board member
• American Academy of Orthopaedic Surgeons, Women's Health Issues, Advisory Board, Chair

Dr. Arendt is Professor and Vice Chair in the Department of Orthopaedic Surgery and is a faculty advisor for medical students. Dr. Arendt serves on the Editorial Boards of Knee and Shoulder in Sports and Trauma, British Journal of Sports Medicine, Orthopaedics Today, Sports Medicine and Arthroscopy Review, and American Journal of Sports Medicine.

JONATHAN BRAMAN, M.D.

Education:
• University of Washington School of Medicine, Seattle, WA, M.D.
• University of Washington Affiliated Hospitals, Seattle, WA, General Surgery, Internship
• University of Washington Affiliated Hospitals, Seattle, WA, Orthopaedic Surgery, Residency
• Mt. Sinai Hospital, New York, NY, Shoulder Surgery, Fellowship

Membership:
• Zimmer/AOA/OREF Resident Leadership Forum, Inaugural Member
• American Orthopaedic Association
• Minnesota Orthopaedic Society
• Mid-America Orthopaedic Association
• University of Minnesota Medical Reserve Corps
• American Academy of Orthopaedic Surgeons
• American Shoulder and Elbow Surgeons Society, Associate member
• Council of Orthopaedic Residency Directors
• Team Physician, Intercollegiate Athletics, University of Minnesota

Dr. Braman is the Residency Program Director and is an Associate Professor in the Department of Orthopaedic Surgery. He specializes in shoulder injuries and arthritis. He is a member of the University of Minnesota Medical School Department of Orthopaedic Surgery and the TRIA Orthopaedic Center.
EDWARD CHENG, MD

Education:
- Northwestern University Medical School, Chicago, IL, M.D.
- Northwestern University, McGraw Medical Center, Chicago, IL, General Surgery, Internship and Residency
- Harvard Combined Orthopaedic Surgery Residency Program, Boston, MA, Orthopaedic Surgery, Residency
- Massachusetts General Hospital, Boston, MA, Orthopaedic Oncology Fellowship, Research Fellowship
- Boston Children’s Hospital Medical Center, Boston, MA, Pediatric Orthopaedic Oncology, Fellow

Membership:
- Musculoskeletal Tumor Society, Treasurer
- American College of Surgeons Oncology Group
- American Association of Hip and Knee Surgeons

Dr. Cheng is the Mairs Family Professor and specializes in orthopaedic oncology and adult reconstruction. His research focuses on soft tissue sarcomas, bone tumors, osteonecrosis, and joint replacement. He is the director of the University of Minnesota’s Adult Reconstructive Fellowship Program.

ALICIA HARRISON, MD

Education:
- University of Kansas School of Medicine, Kansas City, KS, M.D.
- University of Minnesota Medical School, Minneapolis, MN, Residency
- Mount Sinai School of Medicine, New York, NY, Shoulder and Elbow Surgery Fellowship

Membership:
- American Academy of Orthopaedic Surgeons
- American Board of Orthopaedic Surgeons
- American Society of Bone and Mineral Research
- University of Minnesota Cancer Center
- Cell Biology & Metastasis Group, University of Minnesota Medical School
- Minnesota Orthopaedic Society
- Musculoskeletal Tumor Society

Dr. Harrison is an Assistant Professor in the Department of Orthopaedic Surgery. She is a graduate of the University of Minnesota Department of Orthopaedic Surgery Residency Program. Her clinical interests include arthroscopic rotator cuff repair, shoulder and elbow fractures and dislocations, rheumatoid and osteoarthritis of the shoulder and elbow, arthroscopic shoulder instability and shoulder joint replacement.

DENIS CLOHISY, MD

DEPARTMENT CHAIR

Education:
- Northwestern University Medical School, Chicago, IL, M.D.
- University of Minnesota, Minneapolis, MN, General Surgery, Internship
- University of Minnesota, Minneapolis, MN, Orthopaedic Surgery, Resident
- Washington University, St. Louis, MO, Postdoctoral Research Fellow
- Harvard Medical School, Department of Orthopaedic Surgery, Massachusetts General Hospital, Boston, MA, Musculoskeletal Oncology Fellow

Membership:
- Interurban Orthopaedic Society
- American Orthopaedic Association
- American Board of Orthopaedic Surgeons
- American Society of Bone and Mineral Research
- University of Minnesota Cancer Center
- Cell Biology & Metastasis Group, University of Minnesota Medical School
- Minnesota Orthopaedic Society
- Musculoskeletal Tumor Society
- American Academy of Orthopaedic Surgeons
- American Academy of Orthopaedic Surgeons, Clinician Scholar Development Committee
- Orthopaedic Research Society, Board of Directors

Dr. Clohisy is a Professor and Chairman of the Department of Orthopaedic Surgery at the University of Minnesota and a member of the University of Minnesota Cancer Center. His specialty is musculoskeletal oncology with a focus on both primary and metastatic cancers of bone and the management of musculoskeletal problems in hemophilia. His clinical research focuses on the effect of surgical treatment of skeletal metastasis on health status, and he has also research the cellular mechanisms of tumor osteolysis. He has been Chairman of the Department of Orthopaedic Surgery since November 2007. He is committed to resident education and has interest and experience in developing both outstanding community orthopaedic surgeons and orthopaedic clinician scientists.
JEFFREY MACALENA, MD

Education:
• Creighton University School of Medicine, Omaha, NE, M.D.
• University of Minnesota Department of Orthopaedic Surgery, Minneapolis, MN, Residency
• University of Pittsburgh, Pittsburgh, PA, Orthopaedic Surgery Sports Medicine Fellowship

Membership:
• Arthroscopy Association of North America Resident/Fellow
• Candidate Member of Mid-America Orthopaedic Association
• Team Physician, Intercollegiate Athletics, University of Minnesota
• Minnesota Orthopaedic Society
• American Academy of Orthopaedic Surgeons
• American Orthopaedic Society of Sports Medicine

Dr. Macalena recently joined our faculty as an Assistant Professor in the Department of Orthopaedic Surgery. He has a clinical interest in sports medicine and athletic injuries to include knee ligament and cartilage injuries as well as shoulder instability and injuries.

AMY MOELLER, MD

Education:
• University of Minnesota Medical School, Minneapolis, MN, M.D.
• University of Minnesota Medical School, Minneapolis, MN, Residency
• University of Utah, Salt Lake City, UT, Hand Surgery Fellowship

Membership:
• American Academy of Orthopaedic Surgeons
• Minnesota Orthopaedic Society
• American Society for Surgery of the Hand
• Ruth Jackson Orthopaedic Society
• Mid-America Orthopaedic Association

Dr. Moeller is an assistant professor in the Department of Orthopaedic Surgery. She completed medical school and orthopaedic residency at the University of Minnesota. Her clinical interests include elbow, wrist, and hand fractures, elbow, wrist and hand arthritis, Dupuytren’s, nerve and tendon injuries, microsurgery, pediatric fractures and congenital hand abnormalities.

ROBERT MORGAN, MD

Education:
• Indiana University School of Medicine, Indianapolis, IN, M.D.
• University of Kentucky College of Medicine, Lexington, KY, Department of Surgery, Internship
• University of Kentucky College of Medicine, Lexington, KY, Orthopaedic Surgery, Residency

Membership:
• Alpha Omega Alpha
• American Academy of Orthopaedic Surgeons
• American Spinal Injury Association
• American College of Surgeons, Fellow
• AO Spine
• AO Spine North America, Faculty
• Minnesota Orthopaedic Society
• Minnesota Medical Association
• Minnesota Academy of Medicine
• North American Spine Society
• Orthopaedic Trauma Association
• Scoliosis Research Society

Dr. Morgan is an Assistant Professor and his expertise includes adult and pediatric spine surgery, as well as orthopaedic trauma surgery. Dr. Morgan spent three years as an orthopaedic surgeon at the U.S. Naval Hospital in Guam and has served in the Middle East.

PATRICK MORGAN, MD

Education:
• University of Minnesota Medical School, M.D.
• University of Minnesota Medical School, Minneapolis, MN, Residency
• Washington University School of Medicine, Fellowship in Joint Preservation, Resurfacing, and Replacement

Membership:
• American Academy of Orthopaedic Surgeons
• International Cartilage Repair Society
• Mid-America Orthopaedic Association
• AO North America
• Minnesota Orthopaedic Society

Dr. Morgan is an Assistant Professor in the Department of Orthopaedic Surgery. His specialty is adult reconstruction, focusing on young adult hip disorders and joint preservation procedures. His practice includes hip arthroscopy, resurfacing and joint replacement of the hip and knee.
BRADLEY NELSON, MD

Education:
• University of Minnesota Medical School, M.D.
• University of Colorado, Denver, CO, Residency
• Keller Army Community Hospital, West Point, NY, John A. Feagin Sports Medicine Fellowship

Membership:
• Society of Military Orthopaedic Surgeons
• American Academy of Orthopaedic Surgeons
• American Orthopaedic Society for Sports Medicine
• Arthroscopy Association of North America
• Orthopaedic Research Society
• International Cartilage Research Society
• American Orthopaedic Association
• Team Physician, Intercollegiate Athletics, University of Minnesota

Dr. Nelson is an Associate Professor in the Department of Orthopaedic Surgery. His clinical interests include sports medicine, specializing in ACL injuries and reconstructions, revision ACL reconstructions, articular cartilage injuries, meniscal injuries and transplants, shoulder instabilities, arthroscopic shoulder surgery, and arthroscopic rotator cuff repairs. He is a member of the Department of Orthopaedic Surgery and the TRIA Orthopaedic Center.

ERNANDO PENA, MD

Education:
• Universidad Complutense, Madrid, Spain, M.D.
• University of Minnesota Department of General Surgery, Minneapolis, MN, Internship
• University of Minnesota Department of Orthopaedic Surgery, Minneapolis, MN, Residency
• Fowler-Kennedy 3M Sports Medicine Clinic, University of Western Ontario, Canada, Sports Medicine Fellowship
• Ulleval Universitets Sykehus, Oslo, Norway, Foot and Ankle Fellowship

Membership:
• SECOT, Madrid, Spain
• Team Physician, Intercollegiate Athletics, University of Minnesota

Dr. Peña is an Assistant Professor in the Department of Orthopaedic Surgery. Following completion of his residency training at the University of Minnesota, he went on to a fellowship in sports medicine in Canada, a foot and ankle fellowship in Norway, and then went into private practice in Spain. He returned to the University of Minnesota. His specialty is foot and ankle deformities.

DAVID POLLY, JR, MD

Education:
• Uniformed Services University of the Health Sciences, Bethesda, MD, M.D.
• Walter Reed Army Medical Center, Washington, D.C., Internship and Residency
• University of Minnesota Department of Orthopaedic Surgery, Minneapolis, MN, Spine Fellowship

Membership:
• American Academy of Orthopaedic Surgeons
• American College of Surgeons
• American Medical Association
• American Orthopaedic Association
• Association of Military Surgeons of the United States
• Scoliosis Research Society
• North American Spine Society
• Society of Military Orthopaedic Surgeons
• USU Surgical Associates
• Lumbar Spine Research Society
• Society for Minimally Invasive Spine Surgery

Dr. Polly is a Professor and Chief of Spine Surgery in the Department of Orthopaedic Surgery. He holds the James W. Ogilvie Chair. He is nationally and internationally recognized for biomechanics and outcomes research. He cares for complex pediatric and adult spine conditions. He is well known for scoliosis research and is the Resident Research Director.
EDWARD SANTOS, MD

Education:
• College of Medicine of the University of the Philippines, Manila, Philippines, M.D.
• Philippine General Hospital, Manila, Philippines, Medical Internship
• Philippine General Hospital, Manila, Philippines, Orthopaedic Residency
• Philippine General Hospital, Department of Orthopaedics, Orthopaedics, Chief Residency
• Royal Adelaide Hospital, South Australia, Spinal Surgery, Clinical and Research Fellowship in Spine Surgery
• Holy Spirit Hospital, Brisbane, Queensland, Australia, Revision Joint Surgery and Transplantation, Clinical and Research Fellowship
• Twin Cities Spine Center, Minneapolis, MN, Spine Surgery, Clinical and Research Fellowship
• University of Minnesota, Department of Orthopaedic Surgery, Minneapolis, MN, Adult Orthopaedic Reconstruction, Clinical and Research Fellowship

Dr. Santos is an Assistant Professor in the Department of Orthopaedic Surgery. He has received honors for his outstanding performance as an intern, resident, and Chief Resident from his education in the Philippines. His area of expertise is in degenerative spinal conditions and deformity.

JOSEPH SCHUSTER, DPM

Education:
• Dr. William M. Scholl College of Podiatric Medicine, Chicago, IL, D.P.M.
• Illinois Masonic Medical Center, Chicago, IL, Residency

Membership:
• American College of Foot and Ankle Orthopaedics and Medicine
• Minnesota Podiatric Medical Association
• American Diabetes Association

Dr. Schuster is an Assistant Professor in the Department of Orthopaedic Surgery practicing in the area of Podiatry. He is board certified in the American Board of Podiatric Orthopaedics and Primary Medicine, and American Board of Multiple Specialties in Podiatric prevention and treatment of diabetic wounds and footwear. His area of interest includes diabetic foot care, athletic foot injuries and geriatric foot care.

JONATHAN SEMBRANO, MD

Education:
• College of Medicine of the University of the Philippines, Manila, Philippines, M.D.
• Philippine General Hospital, Manila, Philippines, Orthopaedic Surgery Residency
• Twin Cities Spine Center, Minneapolis, MN, Spine Surgery Fellowship

Memberships:
• North American Spine Society
• AO Spine North America
• Society of Minimally Invasive Spine Surgery
• Society of Lateral Access Surgery
• East Metro Medical Society
• Minnesota Medical Society
• Philippine-Minnesota Medical Association
• Philippine Orthopaedic Association
• Philippine Spine Society

Dr. Sembrano is an Assistant Professor in the Department of Orthopaedic Surgery. His area of expertise is pediatric and adult spinal deformities, minimally invasive spine surgery, spinal degeneration disorders and cervical spine surgery.

ANN VAN HEEST, MD

Education:
• University of Minnesota, Minneapolis, MN, M.D.
• Hennepin County Medical Center, General Surgery, Minneapolis, MN, Internship
• University of Minnesota, Department of Orthopaedic Surgery, Minneapolis, MN, Residency
• Brigham and Women’s Hospital/Children’s Hospital, Boston, MA, Harvard Hand and Upper Extremity, Fellowship

Membership:
• American Board of Orthopaedic Surgery, 1995, 2005
• Certificate of Added Qualifications in Surgery of the Hand, 1996, 2005

Dr. Van Heest is a Professor and the Director of Education for the Department of Orthopaedic Surgery. As the past residency program director she received the Parker J. Palmer Courage to Teach Award, the highest recognition for an ACGME program director. She specializes in hand and upper extremity surgery. Her academic interests include neuromuscular disorders – arthrogryposis, cerebral palsy, and spinal cord injury – congenital and pediatric upper extremity and hand disorders. Dr. Van Heest is also affiliated with the Gillette Children’s Specialty Healthcare, and Shriners Hospital for Children.
General Orthopaedics Service

Orthopaedics Chief and Education Site Director: V. Franklin Sechriest II, M.D.

Faculty: 
- Brian Bjerke, M.D.
- Douglas Drake, M.D.
- Patrick Ebeling, M.D.
- David Fey, M.D.
- Terence Goe, M.D.
- Paul Hartleben, M.D.
- Jason Holm, M.D.
- James H. House, M.D.
- Allan Hunt, M.D.
- Jeffrey Husband, M.D.
- Thomas Lange, M.D.
- Randy Lewis, M.D.
- Daniel Marek, M.D.
- Charles H. Moser, M.D.
- David Nordin, M.D.
- Jonathan Sembrano, M.D.
- Loren Vorlicky, M.D.

V. FRANKLIN SECHRIEST II, M.D
ORTHOPAEDICS CHIEF AND EDUCATION SITE DIRECTOR

Education:
- University of Alabama School of Medicine, Birmingham, AL, M.D.
- University of Minnesota Department of General Surgery, Minneapolis, MN, Internship
- University of Minnesota Department of Orthopaedic Surgery, Minneapolis, MN, Residency
- Insall Scott Kelly Institute for Orthopaedics and Sports Medicine, New York, NY, Fellowship in Adult Reconstruction

Membership:
- Western Orthopaedic Association
- American Academy of Orthopaedic Surgeons
- Orthopaedic Trauma Association
- U.S. Navy Active Reserve

Dr. Sechriest is the Chief of Orthopaedic Surgery at the Minneapolis Veteran Affairs Health Center and an Adjunct Associate Professor in the Department of Orthopaedic Surgery. His clinical interests include sports medicine, joint replacement, military medicine/combat casualty care, orthopaedic humanitarian aid/disaster relief, and mentoring students, residents, and fellows.
PATRICK EBELING, MD

Education:
• University of Minnesota Medical School, Minneapolis, MN, M.D.
• University of Minnesota Medical School, Minneapolis, MN, Residency
• Minnesota Sports Medicine, Minneapolis, MN, Fellowship in Orthopaedic Foot and Ankle Surgery

Membership:
• American Academy of Orthopaedic Surgeons
• American Orthopaedic Foot and Ankle Society
• Mid-America Orthopaedic Association

Dr. Ebeling is an Assistant Professor in the Department of Orthopaedic Surgery. His clinical interests include foot and ankle surgery, including degenerative disease, deformity correction, sports injuries, and trauma.

TERENCE GIOE, MD

Education:
• Indiana University, Indianapolis, IN, M.D.
• Hennepin County Medical Center, Department of Surgery, Minneapolis, MN, Internship
• University of Minnesota, Department of Orthopaedic Surgery, Minneapolis, MN, Residency

Membership:
• American Board of Orthopaedic Surgery, Board Examiner
• QWTF Adult Reconstruction
• American Orthopaedic Association
• The Knee Society
• American Association of Hip and Knee Surgeons
• American Joint Replacement Registry Board of Directors

Dr. Gioe is an Adjunct Professor in the Department of Orthopaedic Surgery. His academic interest involves adult total joint reconstruction, including randomized clinical trials in total knee arthroplasty and total joint registries.

JAMES HOUSE, MD

Education:
• University of Minnesota Medical School, Minneapolis, MN, M.D.
• University of Minnesota, Minneapolis, MN, M.S.
• Anker Hospital, St. Paul Ramsey, St. Paul, MN, Internship
• University of Minnesota, Department of Orthopaedic Surgery, Minneapolis, MN, Residency
• Dr. Joseph Boyes, Los Angeles, CA, Hand Surgery, Fellowship

Membership:
• University of Minnesota Medical Center, Fairview, Outpatient Committee
• American Orthopaedic Association
• Minnesota Medical Foundation, Focus on Scholarships, chairman

Dr. House is a distinguished Professor Emeritus in the Department of Orthopaedic Surgery and an enthusiastic mentor of students and residents. He co-authored “A Century of Orthopaedic Heritage: The History of the University of Minnesota Department of Orthopaedic Surgery.”
Jeffrey Husband, MD

Education:
• University of Manitoba, M.D.
• University of Manitoba, Internship
• University of Manitoba, Residency
• Indiana Hand Center, Hand Surgery, Fellowship

Membership:
• American Society for Surgery of the Hand
• American Academy of Orthopaedic Surgeons
• Canadian Orthopaedic Association
• American Orthopaedic Association

Dr. Husband is an Adjunct Assistant Professor in the Department of Orthopaedic Surgery. He is a hand and upper extremity specialist with a special interest in fracture management. He also practices at TRIA Orthopaedic Center.

Jonathan Sembrano, MD

Education:
• College of Medicine of the University of the Philippines, Manila, Philippines, M.D.
• Philippine General Hospital, Manila, Philippines, Orthopaedic Surgery Residency
• Twin Cities Spine Center, Minneapolis, MN, Spine Surgery Fellowship

Memberships:
• North American Spine Society
• AO Spine North America
• Society of Minimally Invasive Spine Surgery
• Society of Lateral Access Surgery
• East Metro Medical Society
• Minnesota Medical Society
• Philippine-Minnesota Medical Association
• Philippine Orthopaedic Association
• Philippine Spine Society

Dr. Sembrano is an Assistant Professor in the Department of Orthopaedic Surgery. His area of expertise is pediatric and adult spinal deformities, minimally invasive spine surgery, spinal degeneration disorders and cervical spine surgery.
Trauma Service

Orthopaedics Chief: ................. Andrew Schmidt, M.D.

Education Site Director: ............ Thomas Varecka, M.D.

Faculty: .................................. Leo J. deSouza, M.D.
Jacqueline Geissler, M.D.
Richard F. Kyle, M.D.
Nancy Luger, M.D.
Gudrun Mirick, M.D.
Richard C. Reut, M.D.
Andrew Schmidt, M.D.
David Templeman, M.D.
Robert Wengler, M.D.
Patrick Yoon, M.D.

THOMAS VARECKA, MD
EDUCATION SITE DIRECTOR

Education:
• State University of New York, School of Medicine, Buffalo, NY, M.D.
• Hennepin County Medical Center, Minneapolis, MN, Internship
• Veterans Affairs Medical Center, Department of Orthopaedic Surgery, Minneapolis, MN, Residency
• University of Louisville, Hand and Microsurgery, Louisville, KY, Fellowship
• Christine Kleinert Traveling Fellowship in Hand Surgery

Membership:
• American Academy of Orthopaedic Surgeons
• Orthopaedic Trauma Association
• American Orthopaedic Association

Dr. Varecka, Assistant Professor at the University of Minnesota, is the assistant chairman in the Department of Orthopaedic Surgery at Hennepin County Medical Center. Visiting Lecturer in Hand and Microsurgery, Niigata University, Niigata, Japan. Also, he is the director of Hand and Microsurgery at Hennepin County Medical Center. Dr. Varecka practices at Wayzata Orthopaedics in Plymouth.
**JACQUELINE GEISSLER, MD**

**Education:**
- University of Wisconsin Madison Medical School, Madison, WI, M.D.
- University of Minnesota Medical School, Minneapolis, MN, Residency
- University of Southern California, Los Angeles, CA, Joseph H. Boyes Hand Fellowship

**Membership:**
- American Society for Surgery of the Hand
- Ruth Jackson Orthopaedic Society
- American Academy of Orthopaedic Surgeons

Dr. Geissler specializes in trauma, upper extremity fracture care, arthritis, reconstructive surgery, elbow trauma, and peripheral nerve injury. She has a particular interest in upper extremity and hand needs.

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**GUDRUN MIRICK, MD**

**Education:**
- New York Medical College, Valhalla, NY, M.D.
- George Washington University, Washington, DC, Residency
- University of California, San Francisco, CA, Orthopaedic Trauma Fellowship

**Membership:**
- Ruth Jackson Orthopaedic Society
- Orthopaedic Trauma Association
- American Academy of Orthopaedic Surgeons

Dr. Mirick has a clinical interest specializing in foot and ankle trauma as well as pelvic and acetabular injuries. She works with both the pediatric and adult population. She also has an interest in international orthopaedics.

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**NANCY LUGER, MD**

**Education:**
- University of Minnesota Medical School, Minneapolis, MN, M.D.
- University of Minnesota Medical School, Minneapolis, MN, Residency
- Barton Lake Tahoe Sports Medicine Fellowship, South Lake Tahoe, CA

**Membership:**
- Ruth Jackson Orthopaedic Society
- American Academy of Orthopaedic Surgeons
- American Medical Association
- Society for Neuroscience

Dr. Luger specializes in trauma, sports medicine, shoulder and knee injuries for both the pediatric and the adult population.

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**RICHARD KYLE, MD**

**Education:**
- Loyola University School of Medicine, Chicago, IL, M.D.
- Veterans Administration, Minneapolis, MN, Orthopaedic Residency
- Hospital for Special Surgery, New York, NY, Biomechanics Fellowship

**Membership:**
- American Academy of Orthopaedic Surgeons, past president
- Orthopaedic Trauma Association, past president
- American Orthopaedic Association
- American Association of Hip and Knee Surgeons
- Hennepin Faculty Associates, board of directors
- Hennepin County Medical Center, Surgery Chiefs Committee

Dr. Kyle is a Professor in the Department of Orthopaedic Surgery. He is also the chair of the Department of Orthopaedic Surgery at Hennepin County Medical Center.
ANDREW SCHMIDT, M.D.
ORTHOPAEDICS CHIEF

Education:
• University of California, San Diego, CA, M.D.
• Oregon Health Sciences University, Portland, OR, Internship
• Oregon Health Sciences University, Portland, OR, Residency
• Hennepin County Medical Center, Minneapolis, MN, Fellowship

Membership:
• American Academy of Orthopaedic Surgeons
• American Orthopaedic Association
• Orthopaedic Trauma Association, President-Elect
• Minnesota Orthopaedic Society

Dr. Schmidt is a Professor in the Department of Orthopaedic Surgery, and Faculty at Hennepin County Medical Center. Dr. Schmidt specializes in trauma care and total joint replacement. He is an Associate Editor of the Journal of Knee Surgery, on the Editorial Board of the Journal of Orthopaedic Trauma, and is one of the Editors of the textbook *Surgical Treatment of Orthopaedic Trauma*.

DAVID TEMPLEMAN, M.D.

Education:
• University of Iowa, Iowa City, IA, M.D.
• University of Wisconsin, Madison, WI, Internship
• University of Wisconsin, Madison, WI, Residency
• University of California, Davis Medical Center, Sacramento, CA, Trauma Service, Fellowship

Membership:
• American Academy of Orthopaedic Surgeons
• Orthopaedic Trauma Association, past president
• American Orthopaedic Association
• Doctors Without Borders

Dr. Templeman is an Associate Professor in the Department of Orthopaedic and Trauma Fellowship Director at Hennepin County Medical Center. He is published in multiple journals and books.

PATRICK YOON, M.D.

Education:
• University of California Irvine College, M.D.
• University of Minnesota Medical School, Minneapolis, MN, Residency
• Mercy Medical Center, Baltimore, MD, Foot and Ankle Fellowship
• Hennepin County Medical Center, Minneapolis, MN, Adult Reconstruction Fellowship

Membership:
• American Academy of Orthopaedic Surgeons
• Hennepin County Medical Center
• Hennepin Faculty Associates
• Mid-America Orthopaedic Association
• American Orthopaedic Foot and Ankle Society

Dr. Yoon is an Assistant Professor in the Department Surgery and director of foot and ankle trauma at Hennepin County Medical Center. Areas of subspecialty interest are foot and ankle, trauma reconstruction and total joint replacement. He is also interested in international orthopaedics.
**Pediatric Service**

**Medical Director:** ................. Steven Koop, M.D.

**Education Site Director:** ........ Deborah Quanbeck, M.D.

**Faculty:** ........................................ Bruce Bartie, M.D.
               Deb Bohn, M.D.
               Mark Dahl, M.D.
               Stephen England, M.D.
               Tenner Guillaume, M.D.
               Michael Healy, M.D.
               Steven Koop, M.D.
               Jennifer Laine, M.D.
               John E. Lonstein, M.D.
               Robert Morgan, M.D.
               Tom Novacheck, M.D.
               Benjamin Novak, M.D.
               David Palmer, M.D.
               Joseph Perra, M.D.
               Allison Schiffert, M.D.
               Stephen Sundberg, M.D.
               Walter Truong, M.D.
               Ann Van Heest, M.D.
               Kevin Walker, M.D.
               Elizabeth Weber, M.D.

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**DEBORAH QUANBECK, MD**

**EDUCATION SITE DIRECTOR**

**Education:**
- University of Minnesota Medical School, Minneapolis, MN, M.D.
- University of Minnesota, Department of Surgery, Minneapolis, MN, Internship
- University of Minnesota, Department of Orthopaedic Surgery, Minneapolis, MN, Residency
- University of Minnesota, Pediatric Orthopaedic, Minneapolis, MN, Fellowship

**Membership:**
- American Academy of Orthopaedic Surgeons
- Pediatric Orthopaedic Society of North America
- American Academy of Cerebral Palsy and Developmental Medicine
- Past-President, Minnesota Orthopaedic Society

Dr. Quanbeck is an Assistant Professor in the Department of Orthopaedic Surgery. She is Director of Medical Education and a staff physician at Gillette Children’s Specialty Healthcare.
**Michael Healy, MD**

**Education:**
- University of Minnesota, M.D.
- University of Connecticut, Orthopaedic Surgery Residency
- University of Minnesota Gillette Children's Specialty Healthcare, Pediatric orthopaedic surgery fellowship

**Membership:**
- American Academy of Orthopaedic Surgeons
- American Academy for Cerebral Palsy and Developmental Medicine

Dr. Healy is an Assistant Professor in the Department of Orthopaedic Surgery. He is a pediatric orthopaedic surgeon on staff at Gillette Children’s Specialty Healthcare Center. His clinical interests include disorders of the hip and pelvis, specifically those related to developmental abnormalities and neuromuscular conditions. He also works with children and adolescents with sports injuries.

**Steven Koop, MD**

**Medical Director**

**Education:**
- University of Minnesota Medical School, Minneapolis, MN, M.D.
- St. Paul-Ramsey Medical Center, St. Paul, MN, Internship
- Veterans Affairs Medical Center/University of Minnesota, Minneapolis, MN, Residency
- Newington Children’s Hospital, Newington, CT, Pediatric Orthopaedic Fellowship

**Membership:**
- American Academy of Cerebral Palsy and Developmental Medicine, fellow member, Gait Committee, Publications Committee
- Gait & Clinical Movement Analysis Society
- Scoliosis Research Society
- 20th Century Orthopaedic Association
- American Orthopaedic Association

Dr. Koop is an Associate Professor in the Department of Orthopaedic Surgery. He has been the Medical Director at Gillette Children’s Specialty Healthcare since 2001. His particular interest is patient care, the education of residents and fellows, and clinical research.

**Tom Novacheck, MD**

**Education:**
- University of Wisconsin Medical School, Madison, WI, M.D.
- Pennsylvania State University, Hershey, PA, Internship
- Pennsylvania State University, Hershey, PA, Orthopaedic Resident
- Newington Children’s Hospital, Newington, CT, Pediatric Orthopaedic Fellowship

**Membership:**
- American Academy of Cerebral Palsy and Developmental Medicine
- American Academy for Cerebral Palsy and Developmental Medicine
- American Academy of Cerebral Palsy and Developmental Medicine
- American Academy of Cerebral Palsy and Division of Medicine
- American Orthopaedic Association

Dr. Novacheck has been an attending Staff Physician at Gillette Children’s Specialty Healthcare since 1991. His surgical practice is focused on the management of deformities and gait dysfunction in children with cerebral palsy, scoliosis, and hip reconstructive osteotomies. Dr. Novacheck is an Associate Professor in the Department of Orthopaedic Surgery.

**Stephen Sundberg, MD**

**Education:**
- University of Minnesota Medical School, Minneapolis, MN, M.D.
- University of Utah, Salt Lake City, UT, General Surgery, Internship
- Mayo Clinic, Rochester, MN, Orthopaedic Surgery, Residency
- Adelaide Children’s Hospital, Adelaide, South Australia

**Membership:**
- American Academy of Orthopaedic Surgeons
- Pediatric Orthopaedic Society of North America
- American Academy of Cerebral Palsy and Division of Medicine
- Minnesota Orthopaedic Society

Dr. Sundberg is an Assistant Professor in the Department of Orthopaedic Surgery and a staff physician at Gillette Children’s Specialty Healthcare, Children’s Hospitals & Clinics – Minneapolis and St. Paul, and Abbott Northwestern Hospital. He currently is the Director of Orthopaedics at Gillette Children’s Specialty Healthcare.
WALTER TRUONG, MD

Education:
• Ohio State University College of Medicine and Public Health, Columbus, OH, M.D.
• University of Minnesota, Department of Orthopaedic Surgery, Minneapolis, MN, Residency
• University of Toronto, The Hospital for Sick Children, Toronto, Ontario, Canada, Fellowship

Membership:
• American Academy for Cerebral Palsy and Developmental Medicine
• Pediatric Orthopaedic Society of North America
• American Academy of Orthopaedic Surgeons
• Fellow of Royal College of Surgeons of Canada

Dr. Truong is an Assistant Professor in the Department of Orthopaedic Surgery and a staff pediatric orthopaedic surgeon at Gillette Children’s Specialty Healthcare. His clinical interests include treating children who have scoliosis, cerebral palsy, various hip pathologies or orthopaedic trauma.

ANN VAN HEEST, MD

Education:
• University of Minnesota, Minneapolis, MN, M.D.
• Hennepin County Medical Center, General Surgery, Minneapolis, MN, Internship
• University of Minnesota, Department of Orthopaedic Surgery, Minneapolis, MN, Residency
• Brigham and Women’s Hospital/Children’s Hospital, Boston, MA, Harvard Hand and Upper Extremity, Fellowship

Membership:
• American Board of Orthopaedic Surgery, 1995, 2005
• Certificate of Added Qualifications in Surgery of the Hand, 1996, 2005

Dr. Van Heest is a Professor and the Director of Education for the Department of Orthopaedic Surgery. As the past residency program director she received the Parker J. Palmer Courage to Teach Award, the highest recognition for an ACGME program director. She specializes in hand and upper extremity surgery. Her academic interests include neuromuscular disorders – arthrogryposis, cerebral palsy, and spinal cord injury – congenital and pediatric upper extremity and hand disorders. Dr. Van Heest is also affiliated with the Gillette Children’s Specialty Healthcare, and Shriners Hospital for Children.

KEVIN WALKER, MD

Education:
• University of Minnesota Medical School, Minneapolis, MN, M.D.
• University of Minnesota, Minneapolis, MN, General Surgery, Internship
• University of Minnesota, Department of Orthopaedic Surgery, Minneapolis, MN, Residency
• Royal Children’s Hospital, Melbourne, Victoria, Australia, Pediatric Orthopaedic Fellowship
• Starship Children’s Hospital, Auckland, New Zealand, Pediatric Spine Deformity Fellowship

Membership:
• Pediatric Orthopaedic Society of North America
• American Academy of Orthopaedic Surgeons
• American Academy of Cerebral Palsy and Developmental Medicine
• Minnesota Medical Association

Dr. Walker is an Assistant Professor in the Department of Orthopaedic Surgery and a staff pediatric orthopaedic surgeon at Gillette Children’s Specialty Healthcare. He is the Pediatric Orthopaedic Surgery Fellowship Director at Gillette Children’s.
Pediatric Service

Chief: ........................................... Peter Cole, M.D.

Education Director: ................... Paul Lafferty, M.D.

Faculty: ....................................... Sarah Anderson, M.D.
Jonathan Cooper, M.D.
Michael D’Amato, M.D.
Todd Johnson, M.D.
Mengnai Li, M.D.
Scott Marston, M.D.
Christian Ogilvie, M.D.
Kevin O’Halloran, M.D.
Katharine Pico, M.D.
Gavin Pittman, M.D.
Julie Switzer, M.D.
Randy Twito, M.D.
Christina Ward, M.D.

PAUL LAFFERTY, MD
EDUCATION SITE DIRECTOR

Education:
• University of Medicine and Dentistry of New Jersey, Newark, NJ, M.D.
• New York University, Hospital for Joint Diseases Orthopaedic Institute, Residency
• University of Minnesota, Regions Hospital Department of Orthopaedics, Orthopaedic Trauma Fellowship

Membership:
• American Board of Orthopaedic Surgeons
• American Medical Association
• American Academy of Orthopaedic Surgeons
• Orthopaedic Trauma Association

Dr. Lafferty is an Assistant Professor and is an orthopaedic trauma surgeon. His clinical interests include periarticular fractures, pelvic ring injuries, malunions, nonunions, osteomyelitis and general orthopaedic trauma.
SARAH ANDERSON, MD

Education:
• University of Minnesota Medical School, Minneapolis, MN, M.D.
• University of Massachusetts, Worcester, MA, Orthopaedic Surgery Residency
• Washington University, St. Louis, MO, Foot and Ankle Fellowship

Membership:
• American Academy of Orthopaedic Surgeons
• American Medical Association
• American Orthopaedic Foot and Ankle Society

Dr. Anderson is an Assistant Professor of Orthopaedic Surgery and Director of Core Curriculum. She specializes in Foot and Ankle Surgery. Her clinical interests include ankle fractures in the elderly population and diabetic foot care education.

PETER COLE, MD

Education:
• University of Miami Medical School, Miami, FL, M.D.
• Brown University, Rhode Island Hospital, Providence, RI, General Surgery, Internship
• Brown University, Rhode Island Hospital, Providence, RI, Orthopaedic Surgery, Residency
• Harborview Medical Center, Seattle, WA, Orthopaedic Trauma, Fellowship

Membership:
• American Orthopaedic Association
• Orthopaedic Trauma Association
• CMDS

Dr. Cole is a Professor and trauma surgeon in the Department of Orthopaedic Surgery. He is the program director of the trauma fellowship at Regions Hospital. He and his wife run an orthopaedic mission in the Peruvian Amazon.

MENGNAI LI, MD

Education:
• Beijing Medical University, Beijing, China, M.D.
• Beijing Medical University, General Surgery Internship
• Beijing Medical University, Orthopaedic Surgery, Residency
• Virginia Commonwealth University, Richmond, VA, Adult Reconstruction, Fellowship
• Hospital for Special Surgery, New York, NY, Pediatric Orthopaedic, Fellowship

Membership:
• American Association of Anatomists

Dr. Li joined the faculty at the University of Minnesota in September, 2006 as an Assistant Professor. His expertise includes pediatric physeal injuries with a special interest in slipped capital femoral epiphysis (SCFE) and pediatric elbow injury. He also specializes in adolescent and young adult hip and joint replacement surgery including minimally invasive surgery and computer-navigated joint replacement.

SCOTT MARSTON, MD

Education:
• University of Minnesota Medical School, Duluth, MN, M.D.
• University of Minnesota, Department of Orthopaedic Surgery, Minneapolis, MN, Residency
• Hennepin County Medical Center, Minneapolis, MN, Total Joint, Fellowship

Membership:
• American Academy of Orthopaedic Surgeons
• American Association of Hip and Knee Surgeons
• Mid-America Orthopaedic Association
• Minnesota Orthopaedic Society
• Orthopaedic Trauma Association

Dr. Marston is an Assistant Professor in the Department of Orthopaedic Surgery. He specializes in adult reconstruction.
CHRISTIAN OGILVIE, MD

Education:
- University of Minnesota Medical School, M.D.
- University of California San Francisco, Orthopaedic Surgery Residency
- University of Toronto, Ontario, Mount Sinai Hospital, Musculoskeletal Tumor Surgery Fellowship

Membership:
- American Academy of Orthopaedic Surgeons
- Leroy C. Abbott Orthopaedic Society
- Musculoskeletal Tumor Society
- Connective Tissue Oncology Society

Dr. Ogilvie is an Associate Professor in the Department of Orthopaedic Surgery. His clinical interests include bone tumors, including primary and metastatic tumors, soft tissue tumors, and orthopaedic trauma.

JULIE SWITZER, MD

Education:
- School of Medicine, Stanford University, Stanford, CA, M.D.
- University of Washington, Seattle, Seattle, WA, Department of Orthopaedics, Residency
- Vail Orthopaedics and Sports Medicine, Vail, CO, Orthopaedic Sports, Fellowship

Membership:
- American Academy of Orthopaedic Surgeons, Women’s Health Issues, Advisory Board
- American Academy of Orthopaedic Surgeons
- American Board of Medical Specialties
- American Orthopaedic Association, faculty for geriatric course
- Minnesota Medical Association
- Minnesota Orthopaedic Society, 2010 President-Elect
- National Osteoporosis Foundation
- Orthopaedic Trauma Association
- Ramsey County Medical Society
- Ruth Jackson Orthopaedic Society, Board of Directors
- The American Society for Bone and Mineral Research

Dr. Switzer, Assistant Professor in the Department of Orthopaedic Surgery. She specializes in trauma injuries in geriatric patients, osteoporosis and other diseases of bone metabolism, and general orthopaedics.

CHRISTINA WARD, MD

Education:
- Washington University School of Medicine, St. Louis, MO, M.D.
- University of Iowa Department of Orthopaedics, Residency
- University of Iowa Department of Orthopaedics, Hand Surgery Fellowship

Membership:
- American Society for Surgery of the Hand
- American Association for Hand Surgery
- American Academy of Orthopaedic Surgeons
- Ruth Jackson Orthopaedic Society

Dr. Ward is an Assistant Professor in the Department of Orthopaedic Surgery. Her clinical interests include hand and wrist surgery, with emphasis on care of wrist trauma, including distal radius fractures, carpal dislocations, and distal radioulnar joint injuries.
Sports Medicine Clinic / Surgery Center

Medical Director: Edward Craig, M.D.

Education Director: Bradley Nelson, M.D.

Faculty: Kirk Aadalen, M.D.
Elizabeth Arendt, M.D.
Deborah Bohn, M.D.
Joel Boyd, M.D.
Jonathan Braman, M.D.
Stephen England, M.D.
Gary Fetzer, M.D.
David Fischer, M.D.
Yvonne Grierson, M.D.
Jeffrey Husband, M.D.
Alan Markman, M.D.
James Mazzuca, D.P.M.
Patrick Morgan, M.D.
Kavin Mullaney, M.D.
Bradley Nelson, M.D.
Ross Paskoff, M.D.
Fernando Peña, M.D.
Kathleen Peter, M.D.
Edward Santos, M.D.
James Schwender, M.D.
John Steubs, M.D.
Marc Swiontkowski, M.D.
Mark Thomas, M.D.
Marc Tompkins, M.D.
Thomas Varecka, M.D.
Michael Walsh, M.D.
Mark Wilczynski, M.D.

TRIA Orthopaedic Center is a state-of-the-art outpatient orthopaedic center that includes a surgery center, general and subspecialty clinics, rehabilitation services, and an education research facility. TRIA Orthopaedic Center includes a hands-on surgical skills lab for resident training. This facility is a partnership between Park Nicollet Health Services and University of Minnesota Physicians.
K IR K   A A D A L E N ,  M D

Education:
• University of Minnesota, Minneapolis, MN, M.D.
• Northwestern University Medical Center, Chicago, IL, Residency
• Sports Medicine, Rush-Presbyterian-St. Luke’s Medical Center, Chicago, IL, Fellowship

Membership:
• American Academy of Orthopaedic Surgeons
• American Medical Association
• American Orthopaedic Society for Sports Medicine
• Arthroscopy Association of North America

Dr. Aadalen is an Adjunct Assistant Professor in the Department of Orthopaedic Surgery. His clinical interests include sports medicine, knee cartilage injuries, shoulder repair and reconstruction and sports-related hip injuries.

E L I Z A B E T H   A R E N D T ,  M D

Education:
• University of Rochester, Rochester, NY, B.A., M.D.
• University of Rochester, Rochester, NY, General Surgery, Residency
• University of Rochester, Rochester, NY, Orthopaedic Surgery, Residency
• University of Minnesota, Minneapolis, MN, Sports Medicine, Fellowship

Membership:
• Team Physician, Intercollegiate Athletics, University of Minnesota
• AOSSM, Education Committee
• ISAKOS, Knee Committee
• International Patellofemoral Study Group
• ESSKA
• University of Minnesota Physicians, Board member
• American Academy of Orthopaedic Surgeons, Women’s Health Issues, Advisory Board, Chair

Dr. Arendt is Professor and Vice Chair in the Department of Orthopaedic Surgery and is a faculty advisor for medical students. Dr. Arendt serves on the Editorial Boards of Knee and Shoulder in Sports and Trauma, British Journal of Sports Medicine, Orthopaedics Today, Sports Medicine and Arthroscopy Review, and American Journal of Sports Medicine.

J ON A T H A N   B R A M A N ,  M D

Education:
• University of Washington School of Medicine, Seattle, WA, M.D.
• University of Washington Affiliated Hospitals, Seattle, WA, General Surgery, Internship
• University of Washington Affiliated Hospitals, Seattle, WA, Orthopaedic Surgery, Residency
• Mt. Sinai Hospital, New York, NY, Shoulder Surgery, Fellowship

Membership:
• Zimmer/AOA/OREF Resident Leadership Forum, Inaugural Member
• American Orthopaedic Association
• Minnesota Orthopaedic Society
• Mid-America Orthopaedic Association
• University of Minnesota Medical Reserve Corps
• American Academy of Orthopaedic Surgeons
• American Shoulder and Elbow Surgeons Society, Associate member
• Council of Orthopaedic Residency Directors
• Team Physician, Intercollegiate Athletics, University of Minnesota

Dr. Braman is the Residency Program Director and is an Associate Professor in the Department of Orthopaedic Surgery. He specializes in shoulder injuries and arthritis. He is a member of the University of Minnesota Medical School Department of Orthopaedic Surgery and the TRIA Orthopaedic Center.

A L A N   M A R K M A N ,  M D

Education:
• University of Michigan, Ann Arbor, MI, M.D.
• University of Minnesota, Minneapolis, MN, Residency
• Sports Medicine, Orthopaedic & Fracture Clinic, Eugene, OR, Fellowship

Membership:
• American Academy of Orthopaedic Surgeons
• American Orthopaedic Society for Sports Medicine
• Clinical Orthopaedic Society

Dr. Markman is an Adjunct Assistant Professor in the Department of Orthopaedic Surgery. His clinical interests include sports medicine, arthroscopy, knee and shoulder reconstructive surgery.
JAMES MAZZUCA, DPM

Education:
- Dr. William M. Scholl College of Podiatric Medicine, Chicago, IL, D.P.M.
- University of Chicago Medical Center, Chicago, IL, Residency
- Malmo General Hospital Department of Orthopaedics, Malmo, Sweden, Externship

Membership:
- American Podiatric Medical Association
- Minnesota Podiatric Medical Association
- American College of Foot and Ankle Surgeons

Dr. Mazzuca is an Assistant Professor in the Department of Orthopaedic Surgery. His clinical interests include foot and ankle, sports medicine, medical and surgical management of the foot and ankle, structural deformity of the foot, diabetes, arthritis and reconstructive foot surgery.

JOHN STEUBS, MD

Education:
- University of Minnesota Medical School, M.D.
- University of Minnesota, Orthopaedic Residency

Membership:
- American Academy of Orthopaedic Surgeons
- American Orthopaedic Society for Sports Medicine
- American Orthopaedic Foot and Ankle Society
- Mid America Orthopaedic Society
- American College of Sports Medicine
- Wallace Cole Orthopaedic Society

Dr. Steubs is an Adjunct Assistant Professor in the Department of Orthopaedic Surgery. His clinical interests include sports medicine, focusing on arthroscopic knee surgeries and ACL reconstructions, as well as arthroscopic shoulder and elbow surgery. He also has expertise in sports foot and ankle, as well as total knee arthroplasty. He is the Team Physician for the Minnesota Twins.

MARC SWIONTKOWSKI, MD

Education:
- University of Southern California School of Medicine, Los Angeles, CA, M.D.
- University of Washington, Seattle, WA, Surgery Internship
- University of Washington, Seattle, WA, Orthopaedic Residency
- Laboratory for Experimental Surgery, Davos, Switzerland, Orthopaedic Research Fellow

Membership:
- American Academy of Orthopaedic Surgeons
- American College of Surgeons
- American Association for the Surgery of Trauma
- American Orthopaedic Association, past president
- AO North America Technical Commission
- Canadian Orthopaedic Association
- Orthopaedic Research Society
- Orthopaedic Trauma Association, past president
- Société Internationale de Chirurgie Orthopédique et de Traumatologie
- American Board of Orthopaedic Surgery, Director
- American Board of Medical Specialties, Committee on Certification, Subcertification and Recertification
- American Board of Medical Specialties, Research Committee and Board of Directors

Dr. Swiontkowski is a Professor in the Department of Orthopaedic Surgery. He was the Department Chair from 1997–2007. He specializes in trauma, fractures, non-unions, mal-unions, children's fractures, osteomyelitis, and leg length inequality.
MARC TOMPKINS, MD

Education:
- University of Nebraska Medical Center, Omaha, NE, M.D.
- Rhode Island Hospital/Brown Alpert Medical School, Providence, RI, Residency
- Rhode Island Hospital/Brown Alpert Medical School, Providence, RI, Orthopaedic Trauma Fellowship
- University of Virginia, Charlottesville, VA, Sports Medicine Fellowship

Membership:
- Arthroscopy Association of North America
- American Academy of Orthopaedic Surgeons
- AOSSM

Dr. Tompkins is an Assistant Professor in the Department of Orthopaedic Surgery. He has a clinical interest in sports medicine that includes knee repair and reconstruction, shoulder repair and reconstruction, cartilage injuries, sports related ankle injuries and sports related elbow injuries.
Over the last five years, what have our 38 graduates done the year after graduation?

21% have been accepted in a **HAND SURGERY FELLOWSHIP**
- Columbia University, New York, NY
- HealthPartners Institute for Medical Education, St Paul, MN (3)
- Medical College of Wisconsin, Milwaukee, WI
- Oregon Health & Science University, Portland, OR
- University of Southern California, Los Angeles, CA
- University of Utah, Salt Lake City, UT
- University of Washington, Seattle, WA

21% have been accepted in a **SPORTS MEDICINE FELLOWSHIP**
- Barton Health/Lake Tahoe, Lake Tahoe, NV (2)
- Santa Monica Orthopaedic and Sports Medicine Group, Santa Monica, CA
- Steadman Hawkins Clinic, Denver, CO (2)
- University of Pittsburgh, PA
- TRIA Orthopaedic Center, Bloomington, MN
- Wake Forest University, Winston-Salem, NC

13% have been accepted in a **ADULT RECON FELLOWSHIP**
- University of Utah, Salt Lake City, UT
- Washington University, Saint Louis, MO
- Joint Replacement Institute, Los Angeles, CA
- Flinders Medical Center, Adelaide, Australia

13% have gone directly into **PRIVATE PRACTICE**
- Anchorage, AK
- Minneapolis, MN
- Stillwater, MN
- Red Wing, MN
- Waconia, MN

5% have been accepted in a **MUSCULOSKELETAL ONCOLOGY FELLOWSHIP**
- University of Florida, Gainesville, FL
- University of Toronto / Mount Sinai Hospital, Toronto, ON

5% have been accepted in a **SPINE FELLOWSHIP**
- Norton Leatherman Spine Center, Louisville, KY
- University of Colorado, Denver, CO

1 has been accepted in a **FOOT AND ANKLE FELLOWSHIP**
- University of Alabama, Birmingham, AL

1 has been accepted to **MILITARY SERVICE**
- US Air Force

1 has been accepted in a **PEDIATRIC ORTHO FELLOWSHIP**
- University of California, Davis School of Medicine and Shriners Hospitals for Children, Northern California, Sacramento, CA

1 has been accepted in a **SHOULDER AND ELBOW FELLOWSHIP**
- Mount Sinai School of Medicine, New York, NY
**CLASS OF 2015**

Nicholas Antell, M.D. – Orthopaedic Trauma Fellowship at University of California, San Francisco, CA

Kyle Bohm, M.D. – Hand Surgery Fellowship at HealthPartners Institute for Medical Education, St. Paul, MN

Jonathan Herseth, M.D. – Sports Medicine Fellowship at TRIA Orthopaedic Center, Bloomington, MN

Gregory Hildebrand, M.D. – Sports Medicine Fellowship at Steadman Hawkins, CO

John Kampa, M.D. – Orthopaedic Trauma Fellowship at Hennepin County Medical Center, Minneapolis, MN

David Ou-Yang, M.D. – Spine Fellowship at University of Colorado, Denver, CO

Jennifer Wozniczka, M.D. – Hand Surgery Fellowship at Oregon Health & Science University, Portland, OR

**CLASS OF 2014**

Kamaldeen Aderibigbe, M.D. – Orthopaedic Trauma Fellowship, Sonoran Orthopaedic Trauma Surgeons, Scottsdale, AZ

Benjamin Coobs, M.D. – Adult Reconstruction Fellowship, Washington University, St Louis, MO; Carilon Clinic, Roanoke, VA

Erich Gauger, M.D. – Military Service – Air Force; United States Air Force Academy, CO

Chad Griffith, M.D. – Sports Medicine Fellowship, University of Pittsburgh, PA; Saint Cloud Orthopedics, Sartell, MN

Der-Chen Tim Huang, M.D. – Orthopaedic Joints Fellowship, Joint Replacement Institute, Los Angeles, CA

Erik Peterson, M.D. – Private Practice, St. Croix Orthopaedics, Stillwater, MN; Saint Croix Orthopedics, Stillwater, MN

Tiare Salassa, M.D. – Adult Reconstruction and Trauma Fellowship, Flinders Medical Centre, Adelaide, Australia

John Wechter, M.D. – Hand Surgery Fellowship, HealthPartners Institute for Medical Education, St Paul, MN
CLASS OF 2013

Anthony Anderson, M.D. – Adult Reconstruction Fellowship, University of Utah, Salt Lake City, UT; Durango Orthopedics, Durango, CO

Emily Andrisevic, M.D. – Pediatric Orthopaedic Fellowship, University of California, Davis School of Medicine and Shriners Hospitals for Children, Northern California, Sacramento, CA; Phoenix Children’s Hospital, Phoenix, AZ

Ryan Bennett, M.D. – Sports Medicine Fellowship, Santa Monica Orthopaedics Group, Santa Monica, CA; Sutter Health, Roseville, CA

Jess Brehmer, M.D. – General Orthopaedic Practice, Mayo Clinic Health System, Red Wing, MN

Paul Cagle, Jr, M.D. – Shoulder and Elbow Fellowship, Mount Sinai Department of Orthopaedic Surgery, New York, NY; Southern Illinois University Health, Springfield, IL

Jessica Downes, M.D. – Foot and Ankle Fellowship, University of Alabama, Birmingham, AL; Saint Croix Orthopaedics, Stillwater, MN

David Nordin, M.D. – Practice at Holy Family Surgery Center and Hospital Escuela, Tegucigalpa, Honduras; Minneapolis VA Health Care System, Minneapolis, MN

CLASS OF 2012

Brain Bjerke, M.D. – Sports Medicine Fellowship at Steadman Hawkins Clinic, Denver, CO; Twin Cities Orthopaedics, Eden Prairie, MN

Charles David Hightower, M.D. – Private Practice, Alaska Native Medical Center, Anchorage, AL

Jason Holm, M.D. – Sports Medicine Fellowship at Tahoe Orthopaedics and Sports Medicine, Lake Tahoe, NV; Twin Cities Orthopaedics, Burnsville/Shakopee, MN

Ryan Horazdovsky, M.D. – In 2012-2013, working with Samaritan’s Purse in Nepal at Tansem Hospital and then Karanada Hospital in Zimbabwe. Following that, an Adult Reconstruction/Trauma Fellowship at Regions Hospital, St Paul, MN; Alaska Native Medical Center, Anchorage, AK

Amy Moeller, M.D. – Hand Surgery Fellowship at University of Utah, Salt Lake City, UT; Academic Appointment at the University of Minnesota Department of Orthopaedic Surgery, Minneapolis, MN

Nickolas Reimer, M.D. – Tumor Fellowship at University of Florida, Gainsville, FL; Academic Appointment at Emory University, Atlanta, GA

Rudy Rodriguez, M.D. – Hand Surgery Fellowship at Columbia University, New York, NY; Missouri Delta Orthopaedics, Sikeston, MO

Peter Sanders, M.D. – Private Practice, Waconia, MN; Twin Cities Orthopaedics, Minneapolis, MN
Residency Program Graduates

CLASS OF 2011

Jacqueline Geissler, M.D. – Hand and Upper Extremity Fellowship at University of Southern California, Los Angeles, CA; Hennepin County Medical Center, Minneapolis, MN

Todd Johnson, M.D. – Sports Medicine Fellowship at Wake Forest University, Winston-Salem, NC; Regions Hospital, St. Paul, MN

Bradley Kuzel, M.D. – Hand and Upper Extremity Fellowship at Medical College of Wisconsin, Milwaukee, WI; Private Practice, Essential Health, Duluth, MN

Nancy Lugur, M.D. – Sports Medicine Fellowship at Tahoe Orthopaedics Y Sports Medicine, Lake Tahoe, NV; Hennepin County Medical Center, Minneapolis, MN

Benjamin Mueller, M.D., Ph.D. – Spine Fellowship at Leatherman Spine Center, Louisville, KY; Twin Cities Orthopaedics, Golden Valley, MN

Patrick O’Donnell, M.D., Ph.D. – Musculoskeletal Oncology Fellowship at University of Toronto, Mount Sinai Hospital, Canada; Academic Appointment at the University of Kentucky, Lexington, KY

Katharine Pico, M.D. – Hand Surgery Fellowship at University of Minnesota/HealthPartners, St. Paul, MN; Health Partners, St. Paul, MN

Michael Zlowodzki, M.D. – Orthopaedic Surgery Trauma Fellowship, Duke University, Durham, NC; Academic Appointment at Indiana University, Indianapolis, IN

CLASS OF 2010

Jeremy Gardner, M.D. – Private Practice, Altru Clinic in Grand Forks, ND

David Hamming, M.D. – Sports Medicine Fellowship at Steadman Hawkins Clinic, Denver, CO; Illinois Bone and Joint Institute, Gurnee, IL

Michael Johnson, M.D. – Red Wing Medical Center, Red Wing, MN

Gaurav Khanna, M.D. – Adult Reconstruction Fellowship at Scripps Clinic, La Jolla, CA; Kaiser Permanente Baldwin Park, Baldwin Park, CA

Elsbeth Kinnucan, M.D. – Hand and Upper Extremity Fellowship at Regions Medical Center, St. Paul, MN; Kaiser Permanente, Sacramento, CA

Jeffrey Macalena, M.D. – Sports Medicine Fellowship at the University of Pittsburgh, Pittsburgh, PA; Academic Appointment at the University of Minnesota Department of Orthopaedic Surgery, Minneapolis, MN

Daniel Marek, M.D. – Hand Surgery Fellowship at the Department of Orthopaedics & Sports Medicine, University of Washington School of Medicine, Seattle, WA; Twin Cities Orthopaedics, Waconia, MN

Walter Truong, M.D. – Pediatric Orthopaedic Surgery Fellowship, Hospital for Sick Children, Toronto, Ontario, Canada; Gillette Children’s Specialty Healthcare, St. Paul, MN

CLASS OF 2009

Jesse Botker, M.D. – Arthroscopy and Sports Medicine Fellowship with the San Diego Sports Medicine and Orthopaedic Center, San Diego, CA; Orthopaedic & Fracture Clinic, Mankato, MN

Woodie Cross, M.D. – Trauma Fellowship, Harborview Medical Center, Seattle, WA; Academic Appointment, Mayo Clinic, Rochester, MN

Colleen Glisson, M.D. – Hand and Upper Extremity Tufts Combined Hand Surgery Fellowship, Tufts Medical Center, Boston, MA; Mid-County Orthopaedics, St. Louis, MO

Jason Glynn, M.D. – Sports Medicine Fellowship at Sports Orthopaedics and Rehabilitation (SOAR), Redwood City, CA; Private Practice, Fergus Falls, MN

Alicia Harrison, M.D. – Shoulder and Elbow Fellowship, Mount Sinai Medical Center, New York, NY; Academic Appointment, University of Minnesota Department of Orthopaedic Surgery, Minneapolis, MN

Kris Kimber, M.D. – Sports Medicine Fellowship with Mississippi Sports Medicine and Orthopaedic Center, Jackson, MS; Sanford Clinic Orthopaedics & Sports Medicine, Sioux Falls, SD

Steven Schechinger, M.D. – Sports Medicine Fellowship at the Lake Tahoe Orthopaedic Institute, Lake Tahoe, CA; Green Bay Orthopaedics, Green Bay, WI

CLASS OF 2008

Jason Caron, M.D. – Private Practice in Bemidji, MN

Amy Lelwica, M.D. – Private Practice in Brainerd, MN

Clifford Novak, M.D. – Adult Reconstruction Fellowship, Rush University Medical Center, Chicago; Veterans Administration Medical Center, Minneapolis, MN

David Strothman, M.D. – Spine Fellowship, Twin Cities Spine Center, Minneapolis, MN; The Institute for Low Back and Neck Care, Minneapolis, MN

Nicholas Wills, M.D. – Spine Fellowship, Twin Cities Spine Center, Minneapolis, MN; Summit Orthopaedics, St. Paul, MN
Residency Program Graduates

**CLASS OF 2007**

Richard Burg, M.D. – Spine Fellowship, Cleveland Clinic, Cleveland, OH; Private Practice, Austin, TX

Thomas Dudley, M.D. – Private Practice, Alexandria, MN

Justin Esterberg, M.D. – Spine Fellowship, University of Kentucky; Private Practice, Seattle, WA

Christie Heikes, M.D. – Sports Medicine Fellowship, Minnesota Sports Medicine Center, Minneapolis, MN; Minnesota Sports Medicine Center, Minneapolis, MN

Todd Jackman, M.D. – Spine Fellowship, Hospital for Special Surgery, New York, NY; Private Practice, Seattle, WA

Colleen Linehan, M.D. – Private Practice, Saginaw, MI

**CLASS OF 2006**

Andrew Arthur, M.D. – Private Practice, Twin Cities, MN

Gabriel Dersam, M.D. – Pediatric Fellowship at Gillette Children’s Hospital in St. Paul, MN; Academic Appointment at Women & Children’s Hospital, Lafayette, LA

Patricia Kallemeier, M.D. – Hand/Upper Extremity Fellowship at Washington University in St. Louis, MO; Private Practice, Des Moines, IA

Patrick Morgan, M.D. – Fellowship in Joint Preservation, Resurfacing and Replacement, Washington University School of Medicine, St. Louis, MO; Assistant Professor, University of Minnesota, Department of Orthopaedic Surgery

Eric R. Nelson, M.D. – Private Practice, Mason, City, IA

Benjamin Robertson, M.D. – Sports Medicine Fellowship at the University of Oslo, Norway; Private Practice, Brainerd, MN

Eric Stroemer, M.D. – Private Practice, Northfield, MN

**CLASS OF 2005**

Yvonne Grierson, M.D. – Hand Fellowship, University of Minnesota Medical School Department of Orthopaedic Surgery, Minneapolis, MN; TRIA/Park Nicollet Medical Center in Edina, MN

Michael Hebert, M.D. – Park Nicollet Medical Center, St. Louis Park, MN

Ken Kleist, M.D. – Total Joint Fellowship, Rush University, Chicago, IL; Regions Medical Center in St. Paul, MN

Thuan Ly, M.D. – Trauma Fellowship, Carolina Medical Center, Charlotte, NC; Academic Appointment with the University of Minnesota, Regions Medical Center, St. Paul, MN

David Watts, M.D. – Private Practice, Sioux Falls, SD

Daren Wickum, M.D. – Foot and Ankle Fellowship, Tampa, Florida; Private Practice in St. Paul, MN

**CLASS OF 2004**

Daniel Baker, M.D. – Private Practice, Grand Rapids, MN

Deborah Bohn, M.D. – Hand Fellowship, University of Minnesota Department of Orthopaedic Surgery, Minneapolis, MN; TRIA / Park Nicollet Medical Center, Minneapolis, MN

Patrick Ebeling, M.D. – Private Practice, Minneapolis, MN

Neil Johnson, M.D. – Private Practice, Minneapolis, MN

Darren Larson, M.D. – Private Practice, Shakopee, MN

Michael Meisterling, M.D. – Sports Medicine Fellowship, Auckland, New Zealand; Private Practice, Stillwater, MN

**CLASS OF 2003**

Scott Marston, M.D. – Trauma Fellowship, Minneapolis, MN; Academic Appointment, University of Minnesota Department of Orthopaedic Surgery; Regions Hospital, St. Paul, MN

Scott Resig, M.D. – Sports Medicine and Foot and Ankle Fellowship, Auckland, New Zealand; Private Practice, Denver, CO

Franklin Sechrest, M.D. – Knee and Shoulder Fellowship at Insall Scott Kelly Institute for Arthroplasty and Sports Medicine in Manhattan; Military appointment with Navy, San Diego, CA

Anthony Sestero, M.D. – Hand Fellowship, University of Cincinnati; Private Practice, Spokane, WA

Patrick Yoon, M.D. – Foot and Ankle Fellowship, Baltimore, MD; Academic Appointment at Hennepin County Medical Center, Minneapolis, MN

**CLASS OF 2002**

Junius Clawson, M.D. – Spine Fellowship, TX; Private Practice, Murray, UT

Mark Hammerberg, M.D. – Traumatology Fellowship, Seattle, WA; Academic Appointment at Emory University and Private Practice, Atlanta, GA

Chad Holien, M.D. – Private Practice, St. Cloud, MN

David Labadie, M.D. – Sports Medicine Fellowship, PA; Private Practice, Fargo, ND

Amir Mehbod, M.D. – Spine Fellowship, Minneapolis, MN; Staff Physician, Twin Cities Spine Center, Minneapolis, MN

Christopher Meyer, M.D. – Sports Medicine Fellowship, Columbus, GA; Private Practice, Twin Cities, MN

Gerald Rieber, M.D. – Private Practice, Watertown, SD
This program was my first choice and I have not regretted that decision. To me, the various sites are a benefit to residents. There is no telling where you are going to end up working and having firsthand knowledge of how different facilities and systems operate is a huge plus. As always, there are things that can be improved with any program but the difference with this one is the willingness to change for the better. I feel that our evaluations of rotations and our desires to fill deficiencies in our education are taken seriously. I truly believe that this is a well-rounded program that is willing to evolve with the times. You still have to work hard and put in your time but, if you do, you will leave here confident about your knowledge and your abilities.

— PGY 5

I was looking for a residency program that provided sound resident education but did so in a family friendly environment. I can say after being at UMN for nearly 4 years, this is just such a program. Don’t get me wrong, you work your tail off, particularly at our two level one trauma centers, but you do so with the backup of the other residents who are dedicated to surviving as a group. I’m very happy at the University of Minnesota, feel I am getting a top notch education, got my first choice in fellowship programs, and I haven’t had to miss out on some of the best years of my kids’ lives.

— PGY 4

The University of Minnesota Orthopaedic program is excellent. The faculty excels in teaching and remains the top leaders in their fields. All facets of education are covered, including all orthopaedic specialties, research as well as the intangibles like bed-side manner, introspection and research acumen, providing a comprehensive residency experience. An asset to the program is the diversity of teaching centers as well as faculty. Each site and each individual teaches the residents a slightly different way of approaching a problem, ultimately creating a complete and firm understanding of orthopaedics.

This was a great experience!

— PGY 5

The multiple sites that make up our residency program ensure a varied educational experience. It is hard to become too dogmatic in this program!

— PGY 5

The University of Minnesota provides an opportunity to work with multiple staff within the same subspecialty so you see more than one way to do things and get to decide which works best for you. The staff are approachable and exceptional teachers. The program is very family friendly and the twin cities are great. All around I couldn’t be happier with my decision to come to the U!

— PGY 5

Our program prioritizes education and support of residents. Our staff includes excellent mentors and nationally recognized innovators. Prior graduates allow confidence that I will be well trained to care for my patients. Additionally, Minneapolis and St. Paul are great cities!

— PGY 4

I’ve really enjoyed my recent trauma rotation. I’ve had the chance to do my own cases, yet feel appropriately supervised at all times. The residents’ significant others have been able to really form a support community for each other and have a lot of chances to get to know each other well.

— PGY3

There is a strong push and ample opportunities to get hands-on operative experience as a junior resident.

— PGY3

One of the main reasons I chose this program and why I am happy to be here are the faculty and my co-residents. The faculty are leaders in their fields and are dedicated to excellence. That being said, they are here to really encourage and support our learning, and are very approachable. My fellow residents are also great to work with – everyone works help each other and share the workload, especially when things get stressful. Our chiefs are amazing sources of information and operative techniques. With the long and sometimes stressful hours we spend on trauma in our 2nd and 3rd years, having good co-workers has been an invaluable asset to the program.

— PGY3

The residents and staff form a tight knit community any carry on the legacy of Minnesota orthopaedics every day. Each rotation hits the perfect balance of professionalism and fun. Our early foundation in joint reconstruction and trauma is also spattered with subspecialties like Hand, Sports, and Foot & Ankle. Really I see this program as a 5 year fellowship in General Orthopaedics, with the resources and training to launch us into any high powered sub-specialty.

— PGY3
RESIDENT RESEARCH

University of Minnesota Medical School Department of Orthopaedic Surgery residents are required to do a minimum of one research project during their five years. The process is as follows:

During the first year, as residents are educated in Research Methodology, they look to their clinical experience to develop an area of interest, identify a project and an advisor.

- During the second and third year, the research plan is carefully monitored and presented to the full faculty during the Grand Rounds session dedicated to the resident research review.
- During the fourth year, it is expected that residents will present their work and work on the manuscript.
- During the fifth year, the project is presented to the faculty and our visiting professor in its completed form. The residents are required to submit a completed manuscript one month prior to the presentation for review by the visiting professor.
- The manuscript is expected to be submitted for Peer Review publication.

RAMON GUSTILO RESEARCH SOCIETY

The University of Minnesota Medical School's Department of Orthopaedic Surgery sponsors a Ramon Gustilo Research Society dedicated to the promotion and support of resident research. The recipients of the Ramon B. Gustilo Award for the best senior resident research paper become a member of the Society upon receiving this award. The Society meets annually as part of the alumni day at the time of resident graduation. Dr. Gustilo has been a long standing member of the University of Minnesota faculty through his work at Hennepin County Medical center. He is an internationally renowned orthopaedic surgeon famous for his research in trauma and joint replacement.

INTERNATIONAL TRAVEL FELLOWSHIP

The Department of Orthopaedic Surgery has a Minnesota Medical Foundation Scholarship for International Travel. Starting in 2012-2013, this scholarship was awarded to two PGY 2 residents. The award is based on resident performance and compatibility with the available travel programs. In 2013, Dr. Kelsey Davidson will travel to Ecuador with Gillette faculty to provide international pediatric orthopaedic care. Dr. Erica Petersen also received a scholarship to travel to Peru with Dr. Peter Cole's Foundation, Scalpel at the Cross, to provide trauma and post-traumatic reconstruction orthopaedic care. The Department of Orthopaedic Surgery is excited to add this opportunity of international travel as part of the residency program, to promote volunteerism and learn professionalism, and as a way to provide for those who are less fortunate.
Core Belief:
Research and Education Drive Clinical Excellence

Orthopaedic Biomechanics Laboratory

Department of Orthopaedic Surgery

Orthopaedic Biomechanics Laboratory

On-going projects:
- Shoulder in vivo biomechanics
- Understanding spinal biomechanics
- Improved techniques of trauma fixation of fractures

Study of musculoskeletal biology and disease
- Basic discovery
- Mechanisms of musculoskeletal disease in animal models
- Outcomes-based research of standard clinical treatments
Laboratory and Research Centers

Tumor Biology and Progression Research
- Development of clinician scientists
- Study of mechanism driving bone cancer pain
- Development of experimental models of bone cancer
- Discovery of novel bone cancer therapies

Biomechanics Research
- Biomechanics of osteoarthritis, fracture stabilization and joint replacement
- Musculoskeletal biomechanics, orthopaedic engineering
- Musculoskeletal injury and rehabilitation
- Gait analysis
- Spinal mechanics, pediatric neck injury care, therapeutic strategies for low back pain resolution

Center for Magnetic Resonance Research
- Biomedical research using ultrahigh field magnetic resonance imaging and spectroscopy.
Excelen is a private, non-profit and independent research and education organization in the orthopaedic community.

- Orthopaedic trauma
- Total joint replacement
- Orthopaedic infections
- Spine

**Center for Gait Motion and Analysis, Gillette Children’s Specialty Healthcare**

Busiest clinical center for motion analysis in the nation, internationally known.

- Biomechanics
- Diagnosis and treatment planning
- Treatment outcomes

**TRIA Orthopaedic Center**

- Bio Skills Lab
- Outcome Studies
Orthopaedic surgery has a rich heritage at the University of Minnesota, dating back to the founding of the Medical School in 1888. In 1897, Arthur Gillette assumed his duties as the first clinical professor of Orthopaedic Surgery at the University of Minnesota. Gillette also established the first State Crippled Children’s Hospital in 1897, which after his death became Gillette Children’s Hospital — an ongoing and vital part of orthopaedic education and patient care for 115 years. Emil Geist succeeded Arthur Gillette as director of the Orthopaedic Surgery Division in 1921. After Geist’s death in 1933, Wallace Cole became the lead figure in Orthopaedic Surgery for the next 25 years. Although Cole was made full professor in 1935, Orthopaedic Surgery continued as a Division of the Department of General Surgery, headed by Owen Wangensteen, who tightly controlled the budget and most surgical activities.

Dr. Cole retired in 1956, at the mandatory age of 68, but continued to be active in educational activities at Gillette, Shrine, and VA Hospitals until his death in 1973. John Moe was appointed a clinical professor and head of the division in 1957. There was significant growth of the division under Moe, with advancement to a full department.

The appointment of Roby Thompson, Jr., M.D., as professor and department chair in 1974 was a major turning point because of his skills in every area. He brought not only good organizational skills for our educational endeavor, but also experience and interest in orthopaedic research that added immensely to the academic stature of what was already a strong clinical training program. Thompson was well received by the full-time and clinical faculty of both communities, and through his leadership and with cooperation of Dr. Robert Premer at the Minneapolis VA Medical Center, the VA and University programs were integrated by the early 80’s with strong faculty leadership at all of the affiliated hospitals, assuring a balanced and broad educational experience for all residents. Dr. Thompson was also a strong advocate for women in the profession and under his leadership the first female, Jean Eelma, graduated from the residency program in 1983.

In 1997, a nationwide search led to the appointment of Dr. Marc Swiontkowski as professor and chairman of the Department of Orthopaedic Surgery. He continued the long traditions of Drs. Gillette, Geist, Cole, Moe, and Thompson in leading the department to national excellence in patient care, research, and education. He served for 10 years and was instrumental in the development of TRIA Orthopaedic Center.

In 2007, after a nationwide search Dr. Denis Clohisy was appointed the Chair of the Department of Orthopaedic Surgery. He is also the Roby C. Thompson, Jr. M.D. Endowed Chair in Musculoskeletal Oncology. This academic appointment reflects the tradition and the continuance of the department's excellent commitment to scholarship, leadership, and education.
University of Minnesota Medical School

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The University of Minnesota Foundation (UMF) is a non-profit organization that supports health-related education, research, and service at the University of Minnesota. Through generous philanthropic dollars, UMF raises more than $60 million a year to assist the world-renowned programs of the Medical School (Twin Cities and Duluth) and the School of Public Health.

*Resident Education* giving opportunities within UMF for the Department of Orthopaedic Surgery include:

- Resident Book and Education Fund
- McElfresh Orthopaedic Library
- International Travel Fellowship

Thank you for giving generously to one of the highest academic orthopaedic programs in the country. Your philanthropic support makes a difference!

Give online now [here](http://www.ortho.umn.edu), see link at [www.ortho.umn.edu](http://www.ortho.umn.edu) or call: 612-625-1440.