

Current Employment

Suburban Orthopaedics

www.suburbanortho.com

1110 West Schick Rd

Bartlett, IL 60103

Hospital Affiliations:

- St. Alexius Medical Center, Hoffman Estates, IL
 - Alexian Brothers Medical Center, Elk Grove Village, IL
 - Advocate Sherman Hospital, Elgin, IL
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Education

Bachelor of Science (B.S.)

Received May 2010

University of Wisconsin, Madison

- Major in Biology
- Certificate in Environmental Studies
- Honors Biology Core Curriculum

Master of Science (M.S.)

Received May 2012

Rosalind Franklin University of Medicine and Science

- Master of Science in Biomedical Science
- Certificate in Healthcare Management and Administration

Doctor of Medicine (M.D.)

Received June 2016

Chicago Medical School, Rosalind Franklin University of Medicine and Science

- Alpha Omega Alpha Honor Medical Society (AOA)
 - CMS Scholarship Award – Highest Average for Basic Sciences
 - CMS Scholarship Award – Highest Average for Junior Clinical Sciences
 - CMS Alumni Association Scholastic Achievement Award – Highest Overall Average
 - M.D. with Distinction in Research
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Postgraduate Training

Orthopaedic Surgery Residency

July 2016 – June 2021

University of Cincinnati Medical Center, Cincinnati, OH

Adult Reconstructive Hip and Knee Fellowship

August 2021 – July 2022

University of Wisconsin Hospital and Clinics, Madison, WI

Medical Licensure and Certifications

American Board of Orthopaedic Surgery (ABOS) – Board Eligible
Illinois State Medical License – Current
Illinois State Controlled Substance License – Current
Drug Enforcement Administration Controlled Substance License – Current
Wisconsin State Medical License – Former
Ohio State Medical License – Former
Advanced Cardiac Life Support (ACLS)
Advanced Trauma Life Support (ATLS)

Professional Societies

American Association of Hip and Knee Surgeons (AAHKS)
American Academy of Orthopaedic Surgeons (AAOS)
Alpha Omega Alpha Honor Medical Society (AOA)

Leadership and Committees

President of the Alpha Omega Alpha Honor Medical Society Chicago Medical School at RFUMS, North Chicago, IL	2015 – 2016
Vice President of the Executive Student Council Rosalind Franklin University of Medicine and Science, North Chicago, IL	2012 – 2013
Group Leader for the Taizhou Hospital Internship, Global Health Program Chicago Medical School at RFUMS, North Chicago, IL	2013
Class Representative for the American Medical Student Association Chicago Medical School at RFUMS, North Chicago, IL	2012 – 2013
Class Representative for the Executive Student Council Rosalind Franklin University of Medicine and Science, North Chicago, IL	2011 – 2012

Honors and Awards

M.D. with Distinction in Research Chicago Medical School at RFUMS, North Chicago, IL	2016
CMS Alumni Association Scholastic Achievement Award – Highest Overall Average Chicago Medical School at RFUMS, North Chicago, IL	2016
CMS Scholarship Award - Highest Average for Basic Sciences Chicago Medical School at RFUMS, North Chicago, IL	2016

CMS Scholarship Award – Highest Average for Junior Clinical Sciences Chicago Medical School at RFUMS, North Chicago, IL	2016
Alpha Omega Alpha Honor Medical Society Illinois Delta Chapter, Chicago Medical School at RFUMS, North Chicago, IL	2015
1st Place Scientific Talk at All School Research Consortium Chicago Medical School at RFUMS, North Chicago, IL	2013
4th Place Poster Presentation at Midwest Student Biomedical Research Forum (MSBRF) Creighton University/University of Nebraska, Omaha, NE	2013
1st Place Poster Presentation at RFU Summer Research Poster Session Chicago Medical School at RFUMS, North Chicago, IL	2012
Biology Honors Core Curriculum University of Wisconsin, Madison, WI	2010
Dean's List University of Wisconsin, Madison, WI	2006, 2010

Research Publications

- Lake SS**, Rossi D, Martin D, Hennessy D, Mitchell J, Nickel B. Utilizing Virtual Reality for Resident Training in Primary Total Knee Arthroplasty. (2022). *Manuscript in progress.*
- Lake SS**, Martin D, Behun M, Nickel B, Binkley N, Hennessy D. Intraoperative Physician Assessment of Bone Quality During THA Correlates with DEXA Scan and FRAX Score. (2022). *Manuscript in progress.*
- Lake SS**, Schumaier AP, Bess L, Wyrick J. Proximal Humerus Fractures Treated with the Proximal Humerus Cage: A Case Series with Functional Outcomes. (2021). *Manuscript in progress.*
- Schumaier AP, Andrews EG, Yue RA, **Lake SS**, Evans HT, Scarberry NW, Kelley TC, Archdeacon MT, Le TT. Hemiarthroplasty for Femoral Neck Fractures: Does Surgeon Subspecialty Affect Perioperative Outcomes? *Journal of Orthopaedic Trauma*: November 2020 - Volume 34 - Issue 11 - p 589-593
- McMillan EL, Foate AL, **Lake SS**, Svendsen CN, Bhattacharyya A. Gene expression changes in the MAPK pathway in both Fragile X and Down syndrome human neural progenitor cells. *American Journal of Stem Cells* 2012;1(2):154-162.

Research Posters and Podium Presentations

- Intraoperative Physician Assessment of Bone Quality During THA Correlates with DEXA Scan and FRAX Score**
Research Day Presentation
University of Wisconsin, Madison, WI
 2022 || **Proximal Humerus Fractures Treated with the Proximal Humerus Cage: A Case Series with Functional Outcomes** 27th Annual D.J. Frank, Jr., M.D. Memorial Lectureship and Thesis Day University of Cincinnati Medical Center, Cincinnati, OH | 2021 |

Gene expression, differentiation potential, and cell migration differences in hMSC populations isolated from human omentum and subcutaneous fat (4th place)

Midwest Student Biomedical Research Forum (MSBRF) 2013
University of Nebraska, Omaha, NE

Gene expression differences in hMSC populations from human omentum and subcutaneous fat (1st place)

All School Research Consortium 2013
Chicago Medical School, RFUMS, North Chicago, IL

Cell migration potential of hMSCs isolated from human omentum and subcutaneous fat

Advocate Research & Innovation Forum 2013
Advocate Lutheran General Hospital, Park Ridge, IL

Isolation, in vitro expansion, and viability of hMSC populations from human omentum and subcutaneous fat

Chicago Breast Symposium 2013
Chicago Medical School, RFUMS, North Chicago, IL

Differentiation potential of hMSCs isolated from human omentum tissue

FHCC Annual Poster Day 2013
Captain James A. Lovell Federal Health Care Center, North Chicago, IL

Isolation of hMSCs in human omentum tissue (1st place)

RFU Summer Research Poster Session 2012
Chicago Medical School, RFUMS, North Chicago, IL

Educational Lectures and Presentations

Outpatient Total Joint Arthroplasty

Grand Rounds Presentation 2022
University of Wisconsin, Madison, WI

Patellofemoral arthroplasty versus total knee arthroplasty in the elderly

Freiberg Family Lectureship Series Case Presentation 2019
University of Cincinnati Medical Center, Cincinnati, OH

Manifestations of Scleroderma in the Hand

Orthopaedic Hand Surgery Lecture 2019
University of Cincinnati Medical Center, Cincinnati, OH

Revision superior capsular reconstruction in the setting of failed massive rotator cuff management

DJ Frank Lectureship Series Case Presentation 2019
University of Cincinnati Medical Center, Cincinnati, OH

The use of OptiMesh allograft for treatment of instability and bone loss in the setting of lumbar osteomyelitis and discitis

Orthopaedics Grand Rounds Case Presentation 2019
University of Cincinnati Medical Center, Cincinnati, OH

Scapulothoracic fusion for long thoracic nerve palsy
Multidisciplinary Sports Conference Case Presentation
University of Cincinnati Medical Center, Cincinnati, OH 2019

Specialty Courses and Conferences

AAHKS Annual Meeting
Dallas, TX 2019, 2021

Miller Review Course I
Denver, CO 2021

Scholarship to AAHKS Resident Arthroplasty Course
Dallas, TX 2019

Ohio Hand Symposium
Ohio State University, Columbus, OH 2019

Spine MedEd Resident and Fellows Course
New Orleans, LA 2018

Essentials of Taylor Spatial Frame – Midwest Resident Course
Columbus, OH 2018

William F. Enneking Musculoskeletal Pathology Seminar
University of Florida, Gainesville, FL 2018

AAHKS Fundamentals of Arthroplasty Resident Course
Rosemont, IL 2018

Orthopaedic Trauma Association Annual Meeting
Vancouver, BC 2017

Orthopaedic Trauma Association Resident Comprehensive Fracture Course
Vancouver, BC 2017

Community Involvement and Quality Improvement

Assistant Team Physician
Colerain High School Football, Cincinnati, OH 2018 – 2019

Orthopaedic Surgery Video Library
University of Cincinnati Medical Center, Cincinnati, OH 2018

Resident Leader - Orthopaedic Surgery Interest Group
University of Cincinnati College of Medicine, Cincinnati, OH 2018

Group Leader - Taizhou Hospital Internship

Foreign Medical Student Internship Program, Taizhou Hospital, Zhejiang, China

2013

New Life Volunteering Society Free Health Clinic

Chicago, IL

2012 – 2013

International Medical Relief

Port au Prince, Haiti

2010, 2011

American Indian Youth Outreach

Lakota Reservation, Eagle Butte, SD

2009

Habitat for Humanity

Madison, WI

2008

International Environmental Volunteer

Rotorua, New Zealand

2007

Rosewood Care Center

Northbrook, IL

2006

Activities and Interests

Running, hiking, camping, climbing, snowboarding, skiing, SCUBA diving, wakeboarding, waterskiing, traveling, exploring different cultures