

Charles M. Lieder, DO
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Morton Grove, IL 60053
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Professional Title:

Board Certified Orthopaedic Surgeon, 11/2019
Fellowship trained in Orthopaedic Traumatology
Attending Physician, Illinois Bone and Joint Institute

Faculty Appointments:

Clinical Assistant Professor, University of Illinois-Chicago, 2017 - present
Clinical Assistant Professor, Rosalind Franklin University of Medicine and Science, 2021 - present

Education:

Lincoln Memorial University-DeBusk College of Osteopathic Medicine
Harrogate TN
Doctor of Osteopathic Medicine, 5/14/2011

Michigan State University
East Lansing MI
Bachelor of Science, Major in Physiology, Lyman Briggs School, College of Natural Science,
5/2007

Post Graduate Education and Training

Indiana University School of Medicine-Methodist Hospital
Indianapolis, IN
Orthopaedic Trauma Fellow 07/31/2017

Midwestern University/Chicago College of Osteopathic Medicine
Olympia Fields, IL
Orthopaedic Surgery Resident, 06/30/2016

University of Chicago/Weiss Hospital—Adult Reconstruction
Northwestern University—Hand and Upper Extremity
John H. Stroger, Jr. Hospital of Cook County—Trauma
Shriner's Hospital for Children Chicago—Pediatrics, Spine
Advocate Christ Medical Center—Trauma, Foot and Ankle, Pediatrics
Advocate Illinois Masonic Medical Center—Trauma, Sports

Work Experience

Illinois Bone and Joint Institute, 1/1/19 to present
9000 Waukegan Road Suite 200
Morton Grove, IL 60053
Affiliated Hospitals: Advocate Christ Medical Center, Advocate Illinois Masonic Medical Center, Advocate Lutheran General Hospital

Midland Orthopaedic Associates, 9/1/2017 to 12/31/18

2850 S Wabash Suite 100

Chicago, IL 60616

Affiliated Hospitals: Advocate Christ Medical Center, Advocate Illinois Masonic Medical Center, Mercy Hospital and Medical Center

Appointments

Program Director. Illinois Bone and Joint Physician Assistant Residency Program, 2021- present

Fellow, American Academy of Orthopaedic Surgeons, Inducted 2020

Director, Orthopaedic Trauma 2018-2020
Advocate Illinois Masonic Medical Center

Certifications:

AOBOS Part I Written Exam—Pass May 2016

AOBOS Part II Oral Exam—Pass Oct 2016

AOBOS Part III Clinical Exam—Pass Nov 2019

USMLE Step 1—Pass 218/90, June 2009

USMLE Step 2 CK—Pass 236/98, April 2010

USMLE Step 2 CS—Pass, June 2014

USMLE Step 3—Pass 221, September 2014

COMLEX Level 1—Pass 615/90, June 2009

COMLEX Level 2—Pass 686/95, April 2010

COMLEX Level 2 PE—Pass, May 2010

COMLEX Level 3—Pass 675/90, Jan 2012

Publications/Research:

Papers: Slobogean, G, FAITH-2 Investigators. Fixation using alternative implants for the treatment of hip fractures (FAITH-2): Design and Rationale for a pilot multi-centre 2x2 factorial randomized controlled trial in young femoral neck fracture patients. *Pilot Feasibility Stud.* 2019 May 28;5:70.

Lieder CM, Gaski GE, Virkus WW, Kempton LB. Is Immediate Weight-Bearing safe after single implant fixation of elderly distal femur fractures? *Journal of Orthopaedic Trauma.* 2021 Jan 1;35(1):49-55.

Virkus W, Lieder C, Jang, Y, Rea P, Gaski G. Results of Low Distal Femur Periprosthetic Fractures. *Journal of Orthopaedic Trauma.* 2022 Aug 1;36(8):e300-e305.

Virkus W, Lieder C, Fine L, Rea P, Jang Y, Gaski G. Retrograde intramedullary nails have equivalent outcomes to plate fixation in extremely distal Periprosthetic distal femur fractures. Accepted OTA Annual meeting 2018, Orlando.

Virkus W, Lieder C, Fine L, Rea P, Jang Y, Gaski G. Comparison of outcomes of operative fixation of Periprosthetic distal femur fractures. Accepted OTA Annual Meeting 2018, Orlando.

Lieder, C, Hellman M, Haughom B, Szatkowski J. Mid to distal third tibial shaft fractures caused by gunshots: Characterization and incidence of distal intra-articular extension. *Injury*. 2016 Oct;47(10):2347-2351.

Lieder C, Riff A, Johnston P, Szatkowski J. A 30-year-old soccer player presents with a painful left ankle. *Orthopaedics Today*. October 2014.

P.F. Dillon, R. S. Root-Bernstein and C. M. Lieder. Anti-Oxidant Independent Ascorbate Enhancement of Catecholamine-Induced Contractions of Vascular Smooth Muscle. *AJP Heart and Circulatory* 286: H2353-H2360, 2004.

P.F. Dillon, R. S. Root-Bernstein and C.M. Lieder. Molecular Shielding of Electric Field Complex Dissociation. *Biophysical J*. 90: 1432-1438, 2006.

P.F. Dillon, R.S. Root-Bernstein and C.M. Lieder. Ascorbate Enhancement of H1 Histamine Receptor Sensitivity Coincides with Ascorbate Reduction by Histamine Receptors. *Amer. J. Physiol. Cell*. 291: C977-C984, 2006.

Abstracts:

Lieder C, Gourineni P. Percutaneous Pinning of Displaced Proximal Humeral Fractures with the Aid of External Fixation. Advocate Children's Hospital, Oak Lawn, IL. Presented at Pediatric Research and QI Symposium Advocate Children's Hospital May 2015.

P.F. Dillon, R. S. Root-Bernstein and C.M. Lieder. Molecular Shielding of Electric Field Complex Dissociation. Biophysical Society. *Biophysical J.*, January, 2006: 56a, 2006.

C.M. Lieder, P.F. Dillon, The Use of Capillary Electrophoresis To Simultaneously Measure The Differential Binding Of A Known Molecule To Many Molecules In A Mixed Solution. Biophysical Society. *Biophysical J.*, October, 2006.

Book Chapter:

Lieder, Charles DO and Smith, Peter A. MD "Orthopedic Management of Bruck Syndrome" in *Osteogenesis Imperfecta: Advances in Transitional Care*. Harris, GF PhD and Smith, PA MD. Shriners Hospital Press. Tampa, FL. In Press.

Presentations:

C.M. Lieder work was presented at the following Conferences:
American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA, 2018

Gordon Research Conference: Macromolecular Organization and Cell Function, Oxford, 2004

6th International Conference on Muscle Energetics, Banff, 2006

Gordon Research Conference: Macromolecular Organization and Cell Function, Mount Holyoke, 2006

Grants/Awards:

Traveling Fellowship, sponsored by Indiana University Health, 2017
The Second Affiliated Hospital, Zhejiang University School of Medicine
Hangzhou, China

Schlueter Award, 2013
Midwestern University Outstanding 2nd Year Orthopaedic Resident

Undergraduate Grant-In-Aid, Sigma Xi International Scientific Research Society, April 2004

Lectures/Presentations/Consulting:

5/25/23 Stryker Summer Trauma Tragedies, Chicago IL
3/23/23 Stryker Spring Trauma Tragedies, Chicago IL
10/27/22 Stryker Winter Catastrophes Case Discussion, Chicago IL
9/14/22 Stryker Cadaveric Pelvis Anatomy Lab, Park Ridge, IL
3/5/22 Stryker Alpha Nailing Course/Lab, Rosemont, IL
10/2/21 Synthes Advanced Nailing Course. Park Ridge, IL
8/2019 Chicago Trauma Symposium: Periprosthetic Fractures
8/2019 Chicago Trauma Symposium: Femoral Neck Fractures
2/2019 Synthes Resident Cadaver Course: Chicago IL
8/2018 Chicago Trauma Symposium: Case Controversies
4/5/18 Hand Injuries in the ED. University of Illinois-Chicago Emergency Medicine Residency
Grand Rounds
6/9/17 Distal femur fractures, Garceau-Wray Lectureship, Indiana University School of
Medicine
5/14/2014 Current Strategies in Treatment of Trauma and Extremities, Stryker
12/2013 Morbidity and Mortality, Shriner's Hospital for Children Chicago
11/2013 Cervical Kyphosis, Sofield Day, Shriner's Hospital for Children Chicago

Professional Organizations:

Orthopaedic Trauma Association, Candidate Member, 2014-present
American Academy of Orthopaedic Surgeons, Fellow Member, 2011-present
American Osteopathic Academy of Orthopedics, 2011-2016
Student Osteopathic Medical Association, 2007-2011
Student Osteopathic Surgical Association—2007-2011
Tennessee Osteopathic Medical Association, 2007-2011

Honors/Recognition:

Order of Omega, Spring 2006-Spring 2007
Lyman Briggs School/College of Natural Science Dean's List Fall 2004, Spring 2005, Fall 2005
MSU Alumni Club of Mid-Michigan Textbook Scholarship 2002

Community Service:

Relay For Life, Michigan State University, Spring 2003-2007
Raised funds for the American Cancer Society.

Advent House, Lansing MI, 1997-2004
Prepare and serve food to less fortunate individuals.

Work Experience:

Laboratory Assistant, September-May, 2002-2007
Patrick Dillon, Ph. D. Michigan State University, East Lansing, MI

Teaching Assistant, Introduction to Physiology, PSL 250, Fall 2005, Fall 2006
Patrick Dillon, Ph. D. Michigan State University East Lansing, MI

Emergency Medicine Clinical Research Associate, Fall 2006
Ingham Regional Medical Center, Emergency Department, Lansing, MI

Medical Assistant, May 2006-June 2007
Ingham Regional Medical Center-Michigan State University Breslin Cancer Center Lansing, MI

Extracurricular Activities:

D.O. Day on the Hill, April 2009, April 2008
Washington, D.C.

Pi Kappa Alpha Fraternity Alumni
East Lansing MI, Michigan State University

Corresponding Secretary, Pi Kappa Alpha Fraternity, 2005-2006
East Lansing MI, Michigan State University

Intramural Sports 2002-2007
East Lansing MI, Michigan State University

Educational Travel:

Study Abroad, Switzerland, July-August 2005. Environmental Science in Switzerland. Studies included geology, botany, pollution effects, glacial cycles, etc. Cities traveled to: Lucerne, Lauterburnnen, Interlaken, Swiss National Park, St. Moritz, Locarno, Zermatt, and Geneva.

Hobbies/Interests:

Sports: Football, Skiing, Baseball
Outdoor Activities: Fishing, Traveling, Northern Michigan, Beaches, Swimming