

Charles M. Lieder, DO  
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**Professional Title:**

Board Certified Orthopaedic Trauma Surgeon  
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, 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 2<sup>nd</sup> Year Orthopaedic Resident

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

**Lectures/Presentations:**

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