

## Resume

### HANBING ZHOU (STEVE)

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#### EDUCATION

8/07-6/11 **Boston University School of Medicine**  
Doctor of Medicine Boston, MA

8/02-6/06 **University of California, San Diego**  
Bachelor of Science: Biomedical Engineering La Jolla, CA

#### POST GRADUATE EDUCATION AND TRAINING

7/17-7/18 **University of British Columbia**  
Vancouver Acute-Adult Spine Fellowship Vancouver, BC

7/11-present **University of Massachusetts Medical School**  
**Department of Orthopaedic Surgery**  
Orthopedic Surgery Internship and Residency Worcester, MA

7/15-present **University of Massachusetts**  
**Isenberg School of Management**  
Master of Business Administration (Online) Amherst, MA

7/12-6/13 **University of Massachusetts Medical School**  
**Department of Orthopaedic Surgery**  
Orthopedic Surgery Research Fellowship Worcester, MA

#### MEDICAL LICENSURES

7/11-present **Massachusetts Limited Medical License #249123**

#### PROFESSIONAL SOCIETY MEMBERSHIPS

7/11-present **American Academy of Orthopaedic Surgeons**

7/11-present **Massachusetts Medical Society**

#### TEACHING EXPERIENCE

##### *University of Massachusetts Medical School*

6/16-6/17 **Graduate Medical Education Committee**  
Resident Representative

2/13-4/13 **Orthopaedic Research Fellow Instructor**  
Musculoskeletal Diseases-MS4 Orthopedic Elective Course

10/12-12/12 **Orthopaedic Research Fellow Instructor**  
Musculoskeletal Anatomy-MS1 Human Anatomy Course

##### *Boston University Medical School*

6/07-6/11 **Chinese Medical Language TA**

#### HONORS AND AWARDS

6/16 **AOA Resident Leadership Forum**  
University of Massachusetts Representative

7/07 **American Heart Association Summer Research Scholar**

8/02-6/06 **University of California, San Diego**  
Warren College Honors Program Recipient

8/01 **American Red Cross Hawaii Chapter President Award**

State of Hawaii “Volunteer of the Year”

8/00-8/02      **St. Louis High School (Honolulu, HI)**  
Scholar Athlete

**WORK EXPERIENCE**

8/05-7/07      **University of California, San Diego**  
**Department of Cardiology**  
Research Assistant

4/04-6/05      **University of California, San Diego**  
**Institute of Molecular Medicine**  
Research Assistant

**VOLUNTEER SERVICE**

*University of California, San Diego*

05/05-8/05      **VA hospital Emergency Department (San Diego, CA)**

08/04-5/06      **Fly Samaritans (San Diego, CA)**  
Assisted a team of optometrists to set up an outpatient eye clinic in Mexico

*St. Louis High School (Honolulu, HI)*

3/99-2/02      **American Red Cross**

4/99-6/01      **Kapiolani Women & Children’s Hospital**

*Boston University Medical School*

8/06-6/11      President of the Student American Heart Association

8/06-6/11      Member of the Student Oncology Association, Student Surgical Association

*University of California, San Diego*

8/02-6/06      Chinese American Student Association

8/03-6/04      EMT-Basic(Emergency Medical Technician) certified

**SPORTING EVENT COVERAGE**

9/12-present      Football: Worcester State University, Becker College, Worcester Academy  
Hockey: Worcester State University, Worcester Academy

**BOOK CHAPTER**

Christian DiPaola, **Hanbing Zhou**, Timothy Emhoff. Spinal Cord Trauma. Irwin & Rippe's Manual of Intensive Care Medicine. In Progress.

**PUBLICATIONS**

**Hanbing Zhou**, Nathan Orvets, Gabriel Merlin, Joshua Shaw, Joshua Dines, Mark Price, Xinning Li. Total Elbow Arthroplasty in the United States: Evaluation of Cost, Patient Demographics and Complication Rates. Orthop Rev (Pavia). 2016 April;8(1): 43-46

Richard Ma, Xinning Li, **Hanbing Zhou**, Matthew Thompson, Courtney Dawson, John J. Steele, Joseph Nguyen, Struan Coleman. Evaluation of hip internal and external rotation range of motion as a risk factor for hip, abdominal, and groin injuries in professional baseball. Orthop Rev (Pavia). 2015 Dec 28;7(4):6142.

**Hanbing Zhou**, Joshua Shaw, Abhay Patel, Xinning Li. In-patient trends and complications after total ankle arthroplasty in the United States. Orthop Rev (Pavia). 2016 Jan 1;39(1):e74-9.

**Hanbing Zhou**, Justin S. Chung, Paul H. Yi, Xinning Li, Mark D. Price. Management of complications after reverse shoulder arthroplasty. Curr Rev Musculoskelet Med. 2015 Mar;8(1):92-7.

Xinning Li, Josef K. Eichinger, Timothy Hartshorn, **Hanbing Zhou**, Elizabeth G. Matzkin, Jon P. Warner. [A Comparison of the Lateral Decubitus and Beach-chair Positions for Shoulder Surgery: Advantages and Complications.](#) J Am Acad Orthop Surg January 2015; 23:18-28.

PJ Wagner, Tamir Ailon, Scott Pascal, John Street, Bowen Qui, **Hanbing Zhou**, Maribeth Harrigan, Michael Stauff, Patrick Connolly, Christian DiPaola. [Use of the Spine Adverse Events Severity \(SAVES\) System to Categorize And Report Adverse Events in Spine Surgery.](#) In submission to Spine Journal

**Hanbing Zhou**, Joshua Shaw, Xinning Li. [In-patient trends and complications after total ankle arthroplasty in the United States.](#) Bone Joint Journal 2013 vol. 95-B no. SUPP 34 602.

Xinning Li, Natalie M. Nielsen, **Hanbing Zhou**, Beth Shubin Stein, Yvonne A. Shelton, and Brian D. Busconi. [Surgical Treatment of a Chronically Fixed Lateral Patella Dislocation in an Adolescent Patient.](#) Orthop Rev (Pavia). 2013 Jun 7; 5(2): e9.

Xinning Li, **Hanbing Zhou**, Phillip Williams, John J. Steele, Joseph Nguyen, Marcus Jäger, and Struan Coleman. [The epidemiology of single season musculoskeletal injuries in professional baseball.](#) Orthop Rev (Pavia). 2013. Feb 22; 5(1): e3.

Austin Vo, **Hanbing Zhou**, Guillaume Dumont, Simon Fogerty, Claudio Rosso, Xinning Li. [Physical Therapy and Rehabilitation after Rotator Cuff Repair: A Review of Current Concepts.](#) Int J Phys Med Rehabil 2013, 1:5

Toshitaka Yajima, Yoshiteru Murofushi, **Hanbing Zhou**, Stanley Park, Jonathan Housman, Zhao-Hua Zhong, Michinari Nakamura, Mitsuyo Machida, Kyung-Kuk Hwang, Yusu Gu, Nancy D. Dalton, Tomoko Yajima, Hideo Yasukawa, Kirk L. Peterson, Kirk U. Knowlton. [SOCS3-deficiency in the cardiac myocyte increases voltage-gated sodium channel \(SCN5A\) current, arrhythmogenicity and cardiomyopathy in a gp130 dependent manner.](#) Circulation. 2011 Dec 13;124(24):2690-701.

Toshitaka Yajima, Hideo Yasukawa, Eun-Seok Jeon, Dingding Xiong, Andrea Dorner, Mitsuo Iwatate, Miwako Nara, **Hanbing Zhou**, Daphne Summers-Torres, Masahiko Hoshijima, Kenneth R. Chien, Akihiko Yoshimura, Kirk U. Knowlton. [Innate anti-viral defense in the cardiac myocyte.](#) Circulation. 2006 Nov 28;114(22):2364-73.

## **PRESENTATIONS**

**Hanbing Zhou**, Joshua Shaw, Mark Price, Xinning Li. [Total Elbow Arthroplasty in the United States: Evaluation of Cost, Patient Demographics and Complication Rates.](#) AAOS Annual Meeting, Orlando 2016 (**Podium**)

Paul Yi, **Hanbing Zhou**, Vamshi Yelavarthi, Bruce Jobse, Justin Chung, Richard Ma, Joshua Dines, Akira Murakami, Xinning Li. [Utilization of ultrasound as a diagnostic, therapeutic and research tool in orthopaedic surgery.](#) AAOS Annual Meeting, Las Vegas 2015 (**Scientific Exhibit**)

Xinning Li, Richard Ma, **Hanbing Zhou**, Asheesh Bedi, David Dines, David Altchek, Joshua Dines. [Management of acromioclavicular joint injuries: A review of current concepts, outcomes, and surgical techniques.](#) AAOS Annual Meeting, Las Vegas 2015 (**Scientific Exhibit**)

Xinning Li, **Hanbing Zhou**, Richard Ma, Josef Eichinger, Timothy Hartshorn, Asheesh Bedi, Joshua Dines, Gilles Walch. [Reverse Total Shoulder Arthroplasty: A review of current concepts, surgical techniques, and clinical outcomes.](#) AAOS Annual Meeting, New Orleans 2014 (**Scientific Exhibit**)

PJ Wagner, Tamir Ailon, **Hanbing Zhou**, Scott Pascal, Maribeth Harrigan, Michael Stauff, Anthony Lapinsky, Patrick Connolly, Christian DiPaola. [Use of the Spine Adverse Events Severity \(SAVES\) System to Categorize and Report Adverse Events in Spine Surgery.](#) International Society for the Study of the Lumbar Spine, Seoul Korea 2014. (**Poster**)

John A. Karbassi, **Hanbing Zhou**, Philip Aurigemma, Scott Pascal, Abhay Patel. [Comparison of Locking Plate versus Non-locking Plate With Compression Screw for First Metatarsophalangeal Fusion.](#) IFFAS/AOFAS Meeting, Chicago IL, September 2014. (**Poster**)

**Hanbing Zhou**, Joshua Shaw, Abhay Patel, Xinning Li. [In-patient trends and complications after total ankle arthroplasty in the United States.](#) AOA/COA Combined Meeting, Montreal, Canada, June 2014. (**Podium**)

**Hanbing Zhou**, Joshua Shaw, Abhay Patel, Xinning Li. In-patient trends and complications after total ankle arthroplasty in the United States. 60<sup>th</sup> Annual Meeting of the Orthopedic Research Society (ORS), New Orleans, LA, March 2014. **(Poster)**

**Hanbing Zhou**, Joshua Shaw, Mark Price, Xinning Li. In-Patient Trends and Complications after Total Elbow Arthroplasty in the United States. 60<sup>th</sup> Annual Meeting of the Orthopedic Research Society (ORS), New Orleans, LA, March 2014. **(Poster)**

Richard Ma, Xinning Li, **Hanbing Zhou**, Matthew Thompson, Courtney Dawson, John J. Steele, Joseph Nguyen, Struan Coleman. Evaluation of hip internal and external rotation range of motion as a risk factor for hip, abdominal, and groin injuries in professional baseball. *Resident Research Award and Travel Grant Winner.* 2013 Eastern Orthopaedic Association (EOA) Annual Meeting. Miami, FL, November 2013. **(Podium Presentation – Hip Session.)**

Xinning Li, **Hanbing Zhou**, Matthew Thompson, Courtney Dawson, John J. Steele, Joseph Nguyen, Richard Ma, Struan Coleman. Evaluation of hip internal and external rotation range of motion as a risk factor for hip, abdominal, and groin injuries in professional baseball. Mid-America Orthopaedic Association (MAOA) Annual Meeting, Amelia Island, Florida, April 2013. **(Poster)**

**Hanbing Zhou**, Joshua Shaw, Abhay Patel, Xinning Li. In-patient trends and complications after total ankle arthroplasty in the United States. 8<sup>th</sup> Meeting of the Combined Orthopaedic Research Societies, Venice, Italy, October 2013. **(Poster)**

**Hanbing Zhou**, Joshua Shaw, Mark Price, Xinning Li. In-patient trends and complications after total elbow arthroplasty in the United States. 8<sup>th</sup> meeting of the Combined Orthopaedic Research Societies (CORS), Venice, Italy, October 2013. **(Poster)**

**Hanbing Zhou**, Natalie Egge, Maribeth Harrigan, Hamid Lari, Jason Eck, Patrick Connolly, Christian DiPaola. Instrumentation and Equipment Related Inefficiency In Spine Surgery: Potential For Cost Savings. North America Spine Society Meeting, New Orleans LA 2013 **(Podium)**

**Hanbing Zhou**, Joshua Shaw, Abhay Patel, Xinning Li. In-patient trends and complications after total ankle arthroplasty in the United States. 26<sup>th</sup> Annual Congress of the International Society for Technology in Arthroplasty (ISTA), Palm Beach, FL, October 2013. **(Poster)**

**Hanbing Zhou**, Joshua Shaw, Mark Price, Xinning Li. In-patient trends and complications after total elbow arthroplasty in the United States. 26<sup>th</sup> Annual Congress of the International Society for Technology in Arthroplasty (ISTA), Palm Beach, FL, October 2013. **(Poster)**

**Hanbing Zhou**, Natalie Egge, Maribeth Harrigan, Hamid Lari, Jason Eck, Patrick Connolly, Christian DiPaola. Instrumentation and Equipment Related Inefficiency In Spine Surgery: Potential For Cost Savings. Lumbar Spine Research Society, Chicago IL 2013 **(Podium)**

**Hanbing Zhou**, Natalie Egge, Maribeth Harrigan; Hamid Lari, Jason Eck, Patrick Connolly, Christian DiPaola. Adverse events in spine surgery: A 9 month prospective analysis. Lumbar Spine Research Society, Chicago IL 2013 **(Podium)**

**Hanbing Zhou**, Jason Eck, Anthony Lapinsky, Patrick Connolly, Christian DiPaola. Nutritional status in patients undergoing elective spine procedures. Lumbar Spine Research Society, Chicago IL 2013 **(Podium)**

**Hanbing Zhou**, Natalie Egge, Maribeth Harrigan, Hamid Lari, Jason Eck, Patrick Connolly, Christian DiPaola. Instrumentation and Equipment Related Inefficiency In Spine Surgery: Potential For Cost Savings. International Society for the Study of the Lumbar Spine, 2013 Scottsdale AZ **(Poster)**

**Hanbing Zhou**, Natalie Egge, Maribeth Harrigan; Hamid Lari, Jason Eck, Patrick Connolly, Christian DiPaola. Adverse events in spine surgery: A 9 month prospective analysis. International Society for the Study of the Lumbar Spine, Scottsdale AZ 2013 **(Podium)**

**Hanbing Zhou**, Jason Eck, Anthony Lapinsky, Patrick Connolly, Christian DiPaola. Nutritional status in patients undergoing elective spine procedures. International Society for the Study of the Lumbar Spine, Scottsdale AZ 2013 **(Podium)**

Xinning Li, Natalie Egge, Ketan Patel, Emily J Curry, Brett D Owens, Brian D Busconi, **Hanbing Zhou**. MRI Study of Associated Shoulder Pathology in Patients with Full-thickness Subscapularis Tendon Tears. The International Congress of Shoulder and Elbow Surgery Meeting (12<sup>th</sup> ICSES), Nagoya Japan 2013 (**Podium**)

**Hanbing Zhou**. Pelvis Fractures: Case Presentation and Discussion. New England Fracture Forum, Raynham, Massachusetts, 2013 (**Podium**)

Michael Heffernan, Ben Snyder, **Hanbing Zhou**, Errol Mortimer. Intraoperative Imaging in a Cadaveric Slipped Capital Femoral Epiphysis (SCFE) Model. AAOS Annual Meeting, Chicago IL 2013 (**Poster**)

Natalie Egge, **Hanbing Zhou**, Anthony Lapinsky, Jason Eck, Christian DiPaola, Jeffrey Lange, Patrick Connolly, Patricia Franklin. Predictors of Quality of Life and Physical Function after Surgical Treatment of Lumbar Spinal Stenosis. North America Spine Society Meeting, Houston TX, 2012 (**Poster**)

Natalie Egge, **Hanbing Zhou**, Anthony Lapinsky, Jason Eck, Christian DiPaola, Jeffrey Lange, Patrick Connolly, Patricia Franklin. Predictors of Improved Pain after Surgical Treatment of Lumbar Spinal Stenosis. North America Spine Society Meeting, Houston TX, 2012 (**Poster**)

Natalie Egge, **Hanbing Zhou**, Anthony Lapinsky, Jason Eck, Christian DiPaola, Jeffrey Lange, Patrick Connolly, Patricia Franklin. Predictors of Quality of Life and Physical Function after Surgical Treatment of Lumbar Spinal Stenosis. 19th International Meeting on Advanced Spine Techniques (IMAST). Istanbul, Turkey, July 2012. (**Poster**)

Natalie Egge, **Hanbing Zhou**, Anthony Lapinsky, Jason Eck, Christian DiPaola, Jeffrey Lange, Patrick Connolly, Patricia Franklin. Predictors of Improved Pain after Surgical Treatment of Lumbar Spinal Stenosis. 19th International Meeting on Advanced Spine Techniques (IMAST). Istanbul, Turkey, July 2012. (**Poster**)

Natalie Egge, Jeffrey Lange, **Hanbing Zhou**, Christian DiPaola, Anthony Lapinsky, Patrick Connolly, Jason Eck. Comparison of Radiation Exposure During Thoracolumbar Fusion Using Fluoroscopic Guidance versus Anatomic Placement of Pedicle Screws. 19th International Meeting on Advanced Spine Techniques (IMAST). Istanbul, Turkey, July 2012. (**Poster**)

**Hanbing Zhou**, Toshitaka Yajima. MicroRNA-19a (miR-19a) regulates gp130 signaling by inhibiting suppressor of cytokine signaling-3(SOCS3) protein translation. American Heart Association, Scientific Session. Orlando, FL, November 2009. (**Podium**)

Stanley Park, **Hanbing Zhou**, Miwako Nara, Tomoko Yajima, Mei Hua Gao, Toshitaka Yajima. Protective Role Of Mitochondrial Antiviral Signaling (MAVS) Under H<sub>2</sub>O<sub>2</sub>-induced Oxidative Stress In the Cardiac Myocyte. American Heart Association, Scientific Session. New Orleans, LA, November 2008. (**Poster**)

## **INTERESTS**

Running

Hiking

Traveling