

CURRICULUM VITAE

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PERSONAL DATA

Date of Birth: September 9, 1983
Birthplace: Santa Monica, CA
Marital Status: Married; Mai-King Chan, M.D.

EDUCATION

Harvard-Westlake School (North Hollywood, California) – High School Diploma, June 2001
Northwestern University (Evanston, Illinois) – Bachelor of Arts (Major: Economics, Minor: Religion), June 2005
Tsinghua University (Beijing, China) – Completed Northwestern’s ‘China – Emerging Legal and Economic Structures’ Program, Summer 2002
Columbia University College of Physicians and Surgeons (New York, New York) – Doctor of Medicine, May 2010
Case Western Reserve University School of Medicine/University Hospitals Case Medical Center (Cleveland, Ohio) – General Surgery Internship, 2010-2011
Case Western Reserve University School of Medicine/University Hospitals Case Medical Center (Cleveland, Ohio) – Resident in Orthopaedics, 2011-2014
Case Western Reserve University School of Medicine/University Hospitals Case Medical Center (Cleveland, Ohio) – Chief Resident in Orthopaedics, 2014-2015
Tufts Medical Center/New England Baptist Hospital (Boston, Massachusetts) – Hand and Upper Extremity Surgery Fellow, 2015-2016

HONORS /GRANTS/LEADERSHIP POSITIONS

High School National Merit Letter of Commendation (2001)

AP Scholar with Distinction (2001)

Undergraduate Northwestern Undergraduate Research Grant (2004)

Endocrine Society Summer Research Fellowship (2005)

Chemistry and Physics Workshop Facilitator (2002-2005)

Medical School P&S Musicians' Guild – Chairperson (2007-2008)

Residency Alpha Omega Alpha Honor Medical Society – Resident Inductee (2013)

American Orthopaedic Association Resident Leadership Forum – Nominee (2014)

Carter Makley Award for Clinical Excellence, Resident Teaching, Mentorship, and Leadership – Awardee (2015)

Mid-America Orthopaedic Association Education Grant – Awardee (2015)

American Orthopaedic Association's Emerging Leaders Program – Member (2014-Present)

Education Committee/Program Evaluation Committee – Elected Member (2013-2015)

Residency Recruitment Committee – Founder and Leader (2013-2015)

Case Medical School Orthopaedic Interest Group Resident Advisor (2011- 2015)

MEDICAL LICENSURE

Massachusetts (#261886)

California (#142027)

NPI#1437474475

RESEARCH PROJECTS

Summers 2003-2005 Investigated the therapeutic targeting of growth factor and estrogen receptor signaling pathways in human non-small cell lung cancer, under Dr. Richard Pietras, UCLA, Geffen School of Medicine, Department of

Hematology and Oncology.

- Summer 2003 Analyzed various measures of cognitive function in epilepsy patients over the past 30 years, under Dr. Rebecca Rausch, UCLA, Geffen School of Medicine, Department of Neurology.
- 2013-2014 Analyzed various measures including the radius of curvature of the lunate facet, lunate, and capitate in 297 specimens from the Hamann-Todd Collection at the Cleveland Museum of Natural History as it relates to proximal row carpectomy. Performed background research, gathered data, supervised medical students, and wrote the manuscript, under Dr. James Robert Anderson, University Hospitals Case Medical Center, Hand and Upper Extremity Division.
- 2013-2015 Studied the treatment of the distal radius fractures at Metrohealth Medical Center from 2012-2013 as it relates to the AAOS' recently published Appropriate Use Criteria application, testing its applicability to a major urban level 1 trauma center. Performed background research, gathered clinical data, supervised medical students, and wrote the manuscript, under Dr. Blaine Todd Bafus, Metrohealth Medical Center, Department of Orthopaedics, Hand and Upper Extremity Service.
- 2015-2016 Studied the racial discrepancies in the utilization of operative treatment for distal radius fractures with a particular focus on differences between Caucasian patients and Asian patients. Performed background research, gathered clinical data, supervised medical students, and presented results, under Dr. Charles Cassidy, Tufts Medical Center, Department of Orthopaedics, Hand and Upper Extremity Service.

EXPERIENCES

- Summer 2001 Tzu Chi Foundation (Hualian, Taiwan)
Lived in a monastery in a rural and impoverished area of Taiwan, volunteering at a free hospital, interacting with patients on the orthopaedic ward.
- 2002-2005 Chemistry and Physics Workshop Facilitator, Northwestern University, Searle Center for Teaching Excellence
Taught weekly workshops for Northwestern general chemistry and physics students emphasizing deeper exploration of concepts and small group collaborative learning.
- 2005-2006 Americorps*VISTA
Designed the curriculum and trained teachers for a Summer Math and Science Academy for the University of California Office of the President's "Academic Centers of Excellence" which were centers for high schoolers in low income areas throughout California, aimed at promoting the academic competitiveness of these

students to help them achieve higher education.

Summer 2007 Himalayan Health Exchange

Travelled with a team of doctors and medical students providing basic medical care to rural villages in the Himalayas along the borders of India/Pakistan and India/China.

ORGANIZATIONS

Alpha Omega Alpha Honor Medical Society – Lifetime Member (2013-Present)

American Society for Surgery of the Hand – Candidate Member (2013-Present)

American Orthopaedic Association's Emerging Leaders Program – Member (2014-Present)

American Association of Orthopaedic Surgeons – Resident Member (2011-Present)

PUBLICATIONS

1. Rausch R, Tsai E, Mathern GW. Verbal memory in patients with lateralized right temporal lobe seizures: Relationship to the initial precipitating injury and surgical outcome. *Epilepsia* 2004;45(Suppl 7):246.
2. Pietras RJ, Chen H-W, Tsai E. Therapeutic targeting of growth factor and estrogen receptor signaling pathways in human non-small cell lung cancer. *Proceedings Lung Cancer SPORE Investigators Meeting* 2004;1:33-34.
3. Pietras RJ, Marquez DC, Chen H-W, Tsai E, Weinberg O, Fishbein M. Estrogen and growth factor receptor interactions in human breast and non-small cell lung cancer cells. *Steroids* 2005;70(5-7):372-381.
4. Reich MS, Shannon C, Tsai E, Salata MJ. Hip arthroscopy for extra-articular hip disease. *Current Reviews in Musculoskeletal Medicine* 2013;6:250-257.
5. Mazloom SE, Tsai E. Keys to success in the third year of medical school. In: Mazloom SE, Parvizi J, eds. *Orthopedic Residency Guide*. 1st ed. Philadelphia, PA: Jaypee Brothers Medical Publishers; 2014:21-31
6. Tsai EY, Iglesias RA, Morris W, Anderson JR. Anatomic study of the lunate fossa, proximal lunate, and proximal capitate as it relates to proximal row carpectomy (under revision).
7. Bafus BT, Tsai EY, Szado C. Zone I flexor tendon injuries. In: Maschke SD, Graham

TJ, Evans PJ, eds. *Master Techniques in Orthopaedic Surgery: The Hand*. 3rd ed. Philadelphia, PA: Wolters Kluwer; 2016.

8. Tsai EY, Kyriakedes J, Yu CC, Hoyen HA, Malone K, Bafus BT. Distal Radius Fractures: AAOS Appropriate Use Criteria vs. Actual Management at a Level One Trauma Center (under revision to *J Hand Surg Am*).

PODIUM PRESENTATIONS

1. Tsai EY, Iglesias RA, Morris W, Anderson JR. Anatomic study of the lunate fossa, proximal lunate, and proximal capitate as it relates to proximal row carpectomy. Mid-America Orthopaedic Association Annual Meeting; 2015 April 23; Hilton Head Island, South Carolina.
2. Kyriakedes J, Tsai EY, Yu CC, Hoyen HA, Malone K, Bafus BT. Distal Radius Fractures: AAOS Appropriate Use Criteria vs. Actual Management at a Level One Trauma Center. Ohio Orthopaedics Society Annual Meeting; 2015 May 15; Columbus, Ohio.
3. Tsai EY, Kyriakedes J, Yu CC, Hoyen HA, Malone K, Bafus BT. Distal Radius Fractures: AAOS Appropriate Use Criteria vs. Actual Management at a Level One Trauma Center. Scott R. Inkley Distinguished Visiting Professor Presentation; 2015 June 2; Cleveland, Ohio.
4. Kyriakedes J, Tsai EY, Yu CC, Hoyen HA, Malone K, Bafus BT. Distal Radius Fractures: AAOS Appropriate Use Criteria vs. Actual Management at a Level One Trauma Center. Accepted as one of the top eight papers to the 70th Annual Meeting of the American Society for Surgery of the Hand; 2015 September 10; Seattle, Washington.
5. Kyriakedes J, Tsai EY, Yu CC, Hoyen HA, Malone K, Bafus BT. Distal Radius Fractures: AAOS Appropriate Use Criteria vs. Actual Management at a Level One Trauma Center. Awarded 2nd Place at the Cleveland Orthopaedic Society Resident Essay Contest; 2016 February 6; Cleveland, Ohio.
6. Tsai EY, Cassidy C. Racial Discrepancies in the Treatment of Distal Radius Fractures. 2016 Thibodeau "Tibby Days" Lecture; 2016 June 9; Boston, Massachusetts.

POSTER PRESENTATIONS

1. Yu CC, Kyriakedes J, Tsai EY, Hoyen HA, Bafus BT. Distal Radius Fractures: AAOS Appropriate Use Criteria vs. Actual Management at a Level 1 Trauma Center. MetroHealth Research Day. Cleveland, Ohio, September 2014.
2. Tsai EY, Antonchak M, Wang M, Tybor D, Wei DH, Cassidy C. Racial Discrepancies in the Treatment of Distal Radius Fractures. 13th Annual New England Baptist Hospital Research Symposium. Boston, Massachusetts; June 15, 2016.

GRAND ROUNDS/VISITING PROFESSOR CASE PRESENTATIONS

1. "Distal Femur Fractures," Metrohealth Medical Center Department of Orthopaedics Grand Rounds, July 2011.
2. "Child Abuse," Metrohealth Medical Center Department of Orthopaedics Grand Rounds, September 2011.
3. "Gunshot Wounds," Metrohealth Medical Center Department of Orthopaedics Grand Rounds, November 2011.
4. "Thoracolumbar Spine Trauma," Metrohealth Medical Center Department of Orthopaedics Grand Rounds, December 2011.
5. "Adult Forearm Fractures," Metrohealth Medical Center Department of Orthopaedics Grand Rounds, October 2012.
6. "A Case of Leg Length Discrepancy and Fibular Hemimelia," Rainbow Visiting Professor Program, Case Western Reserve University, April 2013.
7. "Flexor Tendon Injuries," Metrohealth Medical Center Department of Orthopaedics Grand Rounds, June 2013.
8. "A Case of Chronic Patellar Instability in a Child," Rainbow Visiting Professor Program, Case Western Reserve University, April 2014.
9. "A Case of Lumbar Stenosis Secondary to Degenerative Scoliosis and Spondylolisthesis in a Frail and Elderly Patient," Bohlman Visiting Professor Program, Case Western Reserve University, May 2014.

LANGUAGES

Fluent in Mandarin

PERSONAL INTERESTS

Classical piano: Performed piano competitively winning numerous regional and statewide competitions in California throughout middle and high school, performing as a soloist with orchestras since the age of 10. Continued to perform throughout college and medical school.

Food, travel, automobiles, skiing, cooking, and brewing.