

CURRICULUM VITAE

RYAN G. CHIU, B.S.

[REDACTED]

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EDUCATION

Medical School:	University of Illinois College of Medicine (Chicago, IL) Doctor of Medicine (M.D.) Candidate, Class of 2021 Clinician Executive Medicine (CE-MED) Program	2017-
Undergraduate:	University of Illinois at Chicago (Chicago, IL) Bachelor of Science (B.S.), Political Science Bachelor of Science (B.S.), Biological Sciences	2014-2017

LICENSURE

USMLE Step 1: Pass, 257, March 2019
USMLE Step 2 CK: Pass, 259, December 2020

HONORS/ACCOLADES

- Alpha Omega Alpha Honor Medical Society, 2020
- AMA Foundation Physician of Tomorrow (\$10,000), *American Medical Association*, 2020
- Gold Humanism Honor Society, *The Arnold P. Gold Foundation*, 2020
- Founders Graduate Scholarship (\$4,000), *Phi Kappa Psi Foundation*, 2019
- Health Professions Student Council Travel Grant (\$300), University of Illinois at Chicago, 2020
- Outreach Leader, *American Medical Association – Medical Student Section*, 2019
- John Conley Ethics Essay Award (\$5,000), *AMA Journal of Ethics*, 2018
- Second prize (\$300) & finalist, Chicago Committee on Trauma Paper Competition, 2018
- C.M. Craig Fellowship (\$2,500), University of Illinois College of Medicine, 2018
- Honorable mention, UIC College of Medicine Research Forum, 2018
- Impact Scholar for High-Impact Research, University of Illinois at Chicago, 2017
- Phi Beta Kappa, inductee, 2017
- Graduated *summa cum laude*, 2017

MEMBERSHIPS/LEADERSHIP

American Association of Neurological Surgeons

American Medical Association

Committee on Scientific Issues, 2019-

JAMA Medical Student Leadership Group, 2019-2020

Chapter President and Alternate Delegate, 2018-2019

Chair, Region 2 Committee on Legislation and Advocacy, 2018-2019

Member, Region 2 Committee on Legislation and Advocacy, 2018

Chicago Medical Society

Chapter President, 2018-2019
Congress of Neurological Surgeons
Congress of State Neurosurgical Societies
Illinois State Medical Society
Chair, Medical Student Section, 2020-
Vice Chair and Treasurer, Medical Student Section, 2019-2020
Secretary/Editor, Medical Student Section, 2018-2019
Medical Legal Council, 2018-
Illinois State Neurosurgical Society
Joint (AANS/CNS) Section on Spine and Peripheral Nerves
University of Illinois College of Medicine
President, Radiology Interest Group, 2018-2019
President, Anesthesiology Interest Group, 2018-2019
Vice President, Anesthesiology Interest Group, 2017-2018

PEER-REVIEWED PUBLICATIONS

1. Fuentes AM, Patil SN, Chiu RG, Glastris GK, Behbahani M, Mehta AI. Revision Discectomy With or Without Fusion for the Treatment of Recurrent Lumbar Disc Herniation: A Nationwide Analysis of Risk Profiles and Short-Term Outcomes. *World Neurosurgery*. In press.
2. Chiu RG, Siddiqui N, Nunna RS, Patel S, Rosinski CL, Chaker AN, Hobbs JG, Mehta AI. Association of neurosurgical work relative value units (RVUs) with objective markers of operative complexity. *World Neurosurg*. In press.
3. Patel S, Chiu RG, Rosinski CL, Chaker AN, Burch TG, Behbahani M, Sadeh M, Mehta AI. Risk Factors for Hyponatremia and Perioperative Complications With Malignant Intracranial Tumor Resection in Adults: An Analysis of the Nationwide Inpatient Sample from 2012 to 2015. *World Neurosurg*. 2020 Sep 22:S1878-8750(20)32105-7. doi: 10.1016/j.wneu.2020.09.097. Epub ahead of print. PMID: 32977032.
4. Patel S, Chiu RG, Rosinski CL, Ansari D, Chaker AN, Nunna RS, Behbahani M, Mehta AI. Incidence, Management, and Outcomes of Spinal Giant Cell Tumor of Bone in Adult Patients: A National Cancer Database Analysis. *World Neurosurg*. 2020 Aug 24:S1878-8750(20)31904-5. doi: 10.1016/j.wneu.2020.08.135. Epub ahead of print. PMID: 32853765.
5. Rosinski CL, Behbahani M, Geever B, Chaker AN, Patel S, Chiu R, Zakrzewski J, Rosenberg D, Parola R, Shah K, Mehta AI. Concurrent Versus Staged Procedures for Ventriculoperitoneal Shunt and Cranioplasty: A 10-Year Retrospective Comparative Analysis of Surgical Outcomes. *World Neurosurg*. 2020 Aug 14:S1878-8750(20)31829-5. doi: 10.1016/j.wneu.2020.08.062. Epub ahead of print. PMID: 32798784.
6. Chiu RG, Nunna RS, Siddiqui N, Khalid SI, Behbahani M, Mehta AI. Locum Tenens Neurosurgery in the United States: A Medicare Claims Analysis of Outcomes, Complications, and Cost of Care. *World Neurosurg*. 2020 Oct;142:e210-e214. doi: 10.1016/j.wneu.2020.06.169. Epub 2020 Jun 27. PMID: 32599195.
7. Chiu RG, Siddiqui N, Fuentes A, Zhu A, Patel S, Behbahani M, Mehta AI. Early versus late surgical intervention for central cord syndrome: A nationwide all-payer inpatient analysis of length of stay, discharge destination and cost of care. *Clin Neurol Neurosurg*. 2020 Sep;196:106029. doi: 10.1016/j.clineuro.2020.106029. Epub 2020 Jun 15. PMID: 32570018.
8. Chiu RG, Mehta AI. Spinal Metastases. *JAMA*. 2020 Jun 16;323(23):2438. doi: 10.1001/jama.2020.0716. PMID: 32543685.
9. Chiu RG, Parola R, Nallani A, Glastris G, Siddiqui N, Bheri A, Shah M, Behbahani M, Mehta AI. Correlates of Google Search Rankings for Spine Surgeons: An Analysis of Academic Pedigree, Social Media Presence, and Patient Ratings. *Spine*. 2020 Oct 1;45(19):1376-1381. doi: 10.1097/BRS.0000000000003567. PMID: 32453226.

10. Mehta AI, Chiu RG. COVID-19 Nonessential Surgery Restrictions and Spine Surgery: A German Experience. *Spine*. 2020 Jul 15;45(14):942-943. doi: 10.1097/BRS.0000000000003571. PMID: 32604352; PMCID: PMC7299108.
11. Chiu RG, Onyewuenyi A, McGuire LS, Mehta AI. Neurosurgical implants and interactions of airport metal detectors: A review. *J Clin Neurosci*. 2020 Jul;77:254-257. doi: 10.1016/j.jocn.2020.05.012. Epub 2020 May 10. PMID: 32402614.
12. Chiu RG, Murphy BE, Zhu A, Mehta AI. Racial and Ethnic Disparities in the Inpatient Management of Primary Spinal Cord Tumors. *World Neurosurg*. 2020 Aug;140:e175-e184. doi: 10.1016/j.wneu.2020.04.231. Epub 2020 May 7. PMID: 32389874.
13. Chiu RG, Siddiqui N, Mehta AI. For-Profit Hospitals and Neurosurgery. *World Neurosurg*. 2020 Mar;135:383-384. doi: 10.1016/j.wneu.2019.12.141. PMID: 32143245.
14. Chiu RG, Siddiqui N, Rosinski CL, Nallani A, Parola R, Behbahani M, Mehta AI. Effect of Magnetic Resonance Imaging on Surgical Approach and Outcomes in the Management of Subaxial Cervical Fractures. *World Neurosurg*. 2020 Jun;138:e169-e176. doi: 10.1016/j.wneu.2020.02.060. Epub 2020 Feb 17. PMID: 32081828.
15. Chiu RG, Murphy BE, Rosenberg DM, Zhu AQ, Mehta AI. Association of for-profit hospital ownership status with intracranial hemorrhage outcomes and cost of care. *J Neurosurg*. 2019 Nov 29:1-9. doi: 10.3171/2019.9.JNS191847. Epub ahead of print. PMID: 31783363.
16. Rosinski CL, Patel S, Geever B, Chiu RG, Chaker AN, Zakrzewski J, Rosenberg DM, Parola R, Shah K, Behbahani M, Mehta AI. A Retrospective Comparative Analysis of Titanium Mesh and Custom Implants for Cranioplasty. *Neurosurgery*. 2020 Jan 1;86(1):E15-E22. doi: 10.1093/neuros/nyz358. PMID: 31529096.
17. Chiu RG, Fuentes AM, Mehta AI. Gunshot wounds to the head: racial disparities in inpatient management and outcomes. *Neurosurg Focus*. 2019 Nov 1;47(5):E11. doi: 10.3171/2019.8.FOCUS19484. PMID: 31675706.
18. Chiu RG, Patel S, Zhu A, Aguilar E, Mehta AI. Endoscopic Versus Open Laminectomy for Lumbar Spinal Stenosis: An International, Multi-Institutional Analysis of Outcomes and Adverse Events. *Global Spine J*. 2020 Sep;10(6):720-728. doi: 10.1177/2192568219872157. Epub 2019 Aug 21. PMID: 32707015; PMCID: PMC7383785.
19. Rosinski CL, Chaker AN, Zakrzewski J, Geever B, Patel S, Chiu RG, Rosenberg DM, Parola R, Shah K, Behbahani M, Mehta AI. Autologous Bone Cranioplasty: A Retrospective Comparative Analysis of Frozen and Subcutaneous Bone Flap Storage Methods. *World Neurosurg*. 2019 Nov;131:e312-e320. doi: 10.1016/j.wneu.2019.07.139. Epub 2019 Jul 25. PMID: 31351936.
20. Chiu RG. When There's No One to Whom an Error Can Be Disclosed, How Should an Error Be Handled? *AMA J Ethics*. 2019 Jul 1;21(7):E553-558. doi: 10.1001/amajethics.2019.553. PMID: 31333169. Recipient of 2018 AMA John Conley Ethics Award
21. Chiu RG, Xia Y, Sharp LK, Gerber BS. Do community health workers affect non-urgent, ambulatory healthcare utilization among low-income, minority patients with diabetes? *J Clin Transl Endocrinol*. 2019 Feb 7;16:100184. doi: 10.1016/j.jcte.2019.100184. PMID: 30815365; PMCID: PMC6377405.
22. Ngo CQ, Chiu RG, Chu HT, Vu GV, Nguyen QN, Nguyen LH, Tran TT, Nguyen CT, Tran BX, Latkin CA, Ho CSH, Ho RCM. Correlated Factors with Quitting Attempts Among Male Smokers in Vietnam: A QUITLINE-Based Survey. *Int J Environ Res Public Health*. 2018 Dec 30;16(1):84. doi: 10.3390/ijerph16010084. PMID: 30598002; PMCID: PMC6339115.

23. Chiu RG, Hobbs J, Esfahani DR, Patel S, Rosenberg D, Rosinski CL, Patel AS, Chaker AN, Mehta AI. Anterior Versus Posterior Approach for Thoracic Corpectomy: An Analysis of Risk Factors, Outcomes, and Complications. *World Neurosurg*. 2018 Aug;116:e723-e732. doi: 10.1016/j.wneu.2018.05.074. Epub 2018 May 17. PMID: 29778596.
24. Selner AN, Rosinski CL, Chiu RG, Rosenberg D, Chaker AN, Drammeh H, Esfahani DR, Mehta AI. Vagal Nerve Stimulation for Epilepsy in Adults: A Database Risk Analysis and Review of the Literature. *World Neurosurg*. 2019 Jan;121:e947-e953. doi: 10.1016/j.wneu.2018.10.043. Epub 2018 Oct 13. PMID: 30326313.
25. Bhimani AD, Chiu RG, Esfahani DR, Patel AS, Denyer S, Hobbs JG, Mehta AI. C1-C2 Fusion Versus Occipito-Cervical Fusion for High Cervical Fractures: A Multi-Institutional Database Analysis and Review of the Literature. *World Neurosurg*. 2018 Nov;119:e459-e466. doi: 10.1016/j.wneu.2018.07.182. Epub 2018 Jul 30. PMID: 30071333.
26. Bhimani AD, Selner AN, Esfahani DR, Chiu RG, Rosinski CL, Rosenberg D, Mudreac A, Diamond RJ, Almadidy Z, Mehta AI. Intracranial Electrode Placement for Seizures Before Temporal Lobectomy: A Risk-Benefit Analysis. *World Neurosurg*. 2019 Jan;121:e215-e222. doi: 10.1016/j.wneu.2018.09.079. Epub 2018 Sep 25. PMID: 30261395.
27. Bhimani AD, Esfahani DR, Denyer S, Chiu RG, Rosenberg D, Barks AL, Arnone GD, Mehta AI. Adult Chiari I Malformations: An Analysis of Surgical Risk Factors and Complications Using an International Database. *World Neurosurg*. 2018 Jul;115:e490-e500. doi: 10.1016/j.wneu.2018.04.077. Epub 2018 Apr 21. PMID: 29684513.

ACCEPTED MANUSCRIPTS

1. Chiu RG, Mehta AI. In Reply to the Letter to the Editor Regarding “Racial and Ethnic Disparities in the Inpatient Management of Primary Spinal Cord Tumors.” *World Neurosurgery*. Accepted December 2020.
2. Siddiqui N, Chiu RG, Nunna RS, Glastris GK, Mehta AI. Effect of the Food and Drug Administration Safety and Innovation Act on Racial and Gender Diversity in Neurosurgical Device Trials. *Journal of Neurosurgery*. Accepted October 2020.
3. Zhu A, Chiu RG, Nunna RS, Zhao JW, Hossa JA, Behbahani M, Mehta AI. Gender disparities in outpatient management of post-laminectomy syndrome. *International Journal of Spine Surgery*. Accepted August 2020.

SUBMITTED MANUSCRIPTS

1. Nallani A, Chiu RG, Nunna RS, Behbahani M, Mehta AI. Inpatient Outcomes Following Separation Surgery versus Corpectomy for Spinal Metastases: A Nationwide All-Payer Cost-Utility Analysis. *International Journal of Spine Surgery*. Revised October 2020.
2. Chiu RG, Patel S, Siddiqui N, Nunna RS, Mehta AI. Cannabis Abuse and Perioperative Complications Following Inpatient Spine Surgery in the United States. *Spine*. Revised September 2020.
3. Siddiqui N, Chiu RG, Nico E, Glastris GK, Nunna RS, Mehta AI. Reasons and Associated Predictors for the Discontinuation of Randomized Clinical Trials for Spinal Pathologies: A National Registry Analysis. *J Neurosurg Spine*. Submitted October 2020.
4. Ansari D, Chiu RG, Kumar M, Patel S, Almadidy ZA, Chaudhry NS, Mehta AI. Assessing the Clinical Utility of Computer-Assisted Navigation for Posterior Cervical Fusion: a Propensity-Matched Analysis of 30-Day Outcomes. *Neurosurgery*. Submitted October 2020.

5. Ansari D, **Chiu RG**, Shah P, Patel S, Mehta AI. Inpatient Versus Outpatient Craniotomy for Tumor: A Retrospective Analysis of 30-Day Readmission, Morbidity, and Mortality. *Neurosurgery*. Submitted October 2020.
6. Siddiqui N, **Chiu RG**, Burch TG, Nunna RS, Behbahani M, Mehta AI. Neurosurgeons as Innovators: Effect of Physician Inventor Presence on United States Neurosurgical Device Patent Success. *Neurosurgery*. Submitted October 2020.
7. Ansari D, **Chiu RG**, Patel S, Ryoo JS, Patil SN, Reddy AK, Glastris G, Mehta AI. Perioperative Ischemic Stroke in Spine Surgery: Are Patients Undergoing Anterior Cervical Discectomy and Fusion at Increased Risk? A Retrospective Cohort Study. *World Neurosurgery*. Submitted September 2020.
8. **Chiu RG**, Siddiqui N, Barrington NM, Murphy BE, Kumar P, Esfahani D, Mehta AI. Neurosurgery Over the Decade: Trends in Caseload and Complications in the 2010s in the United States. *Clinical Neurology and Neurosurgery*. Submitted September 2020.
9. Rosinski CL, **Chiu RG**, Patel S, Chaker AN, Behbahani M, Mehta AI. Incidental Durotomy During Fusion Procedures: An Analysis of Risk Factors in 91,833 Patients. *Spine*. Submitted September 2020.
10. Mudreac A, Behbahani M, **Chiu RG**, Patil SN, Reddy AK, Khalid S, Mehta AI. Pediatric Cerebral Cysts: Comparison of Outcomes Following Fenestration versus Shunting Procedures. *Neurological Research*. Submitted September 2020.
11. Nunna RS, Khalid S, **Chiu RG**, Parola R, Fessler R, Adogwa O, Mehta AI. Anterior Versus Posterior Approach in Multi-Level Cervical Spondylotic Myelopathy: A Nationwide Propensity-Matched Analysis of Complications, Outcomes, and Narcotic Use. *Global Spine Journal*. Submitted September 2020.
12. Patel S, **Chiu RG**, Rosinski CL, Chaker AN, Behbahani M, Mehta AI. Current Trends and Socioeconomic Disparities in the Utilization of Spine Augmentation for Patients with Osteoporotic Vertebral Compression Fracture: A Nationwide Inpatient Sample Analysis from 2012 to 2016. *Spine*. Submitted September 2020.
13. Raut R, **Chiu RG**, Shams S, Ahsan AB, Qasim A, Javaid F, Mehta AI. Molding Neurosurgical Practice in Pakistan During the COVID-19 Pandemic. *Interdisciplinary Neurosurgery*. Submitted October 2020.
14. Fuentes AM, **Chiu RG**, Mehta AI. Disparities in the Symptomatic Presentation of Moyamoya Disease in the United States: A Nationwide All-Payer Analysis. *Clinical Neurology and Neurosurgery*. Submitted August 2020
15. Behbahani M, Rosinski CL, Chaudhry NS, Chaker AN, **Chiu RG**, Du X, Mehta AI, Arnone GD, Amin-Hanjani S. Optimal Timing and Sequence of Ventriculoperitoneal Shunt and Gastrostomy Placement. *World Neurosurgery*. Submitted June 2020.

ORAL PRESENTATIONS

1. **Chiu RG**, Bassiri-Tehrani B, Atencio D, Daniele E, Zhao L, Patel PK. "Perception is Reality: The Impact of Orthognathic Surgery on Attractiveness and Personality – A Pilot Study." *Midwest Association of Plastic Surgeons Annual Meeting* (Lake Geneva, WI: Jun 2020 – cancelled due to COVID-19 pandemic)
2. **Chiu RG**, Murphy BE, Rosenberg D, Zhu A, Mehta AI. "Association of For-Profit Hospital Status with Intracranial Hemorrhage Outcomes and Cost of Care." *Congress of Neurological Surgeons* (San Francisco, CA: Oct 2019)
3. Zhu A, **Chiu RG**, Zhao JW, Mehta AI. "Sex Disparities in Outpatient Management of Postlaminectomy Syndrome." *Congress of Neurological Surgeons Annual Meeting* (San Francisco, CA: October 2019)

4. **Chiu RG**, Murphy BE, Rosenberg D, Zhu A, Mehta AI. "Association of For-Profit Hospital Status with Intracranial Hemorrhage Outcomes and Cost of Care." *Illinois State Neurosurgical Society Annual Meeting* (Winfield, IL: Aug 2019)
5. **Chiu RG**, Murphy BE, Zhu A, Mehta AI. "Racial and Ethnic Disparities in the Inpatient Management of Primary Spinal Cord Tumors." *Illinois State Neurosurgical Society Annual Meeting* (Winfield, IL: Aug 2019)
6. **Chiu RG**, Hobbs J, Esfahani DR, Patel S, Rosenberg D, Rosinski CL, Patel AS, Chaker AN, Mehta AI. "Anterior vs Posterior Approach for Thoracic Corpectomy: an Analysis of Risk Factors, Outcomes, and Complications" *Chicago Committee on Trauma (CCOT) Medical Students Paper Competition* (May 2018)

POSTER PRESENTATIONS

1. **Chiu RG**, Siddiqui N, Nunna RS, Behbahani M, Mehta AI. "Locum Tenens Neurosurgery: A Nationwide All-Payer Appraisal Of Patient Outcomes, Complications And Cost of Care." *American Association of Neurological Surgeons Annual Meeting* (Boston, MA: April 2020).
2. **Chiu RG**, Fuentes M, McGuire LS, Mehta AI. "Basilar Skull Fracture Etiologies And Complications: An Epidemiological Analysis Of Socioeconomic Disparities." *American Association of Neurological Surgeons Annual Meeting* (Boston, MA: April 2020).
3. **Chiu RG**, Siddiqui N, Rosinski CL, Nallani A, Parola R, Behbahani M, Mehta AI. "Effect Of MRI On Surgical Approach And Outcomes In The Management of Subaxial Cervical Fractures." *American Association of Neurological Surgeons Annual Meeting* (Boston, MA: April 2020).
4. Siddiqui N, **Chiu RG**, Parola R, Glastris G, Behbahani M, Mehta AI. "Predictors of Google Search Rankings For Spine Surgeons: An Analysis of Academic Pedigree, Social Media Presence And Patient Ratings." *American Association of Neurological Surgeons Annual Meeting* (Boston, MA: April 2020).
5. Fuentes AM, **Chiu RG**, Mehta AI. "Disparities in Symptomatic Presentation of Moyamoya Disease in the United States: A Nationwide All-Payer Analysis." *American Association of Neurological Surgeons Annual Meeting* (Boston, MA: April 2020).
6. Curran N, **Chiu RG**, Micallef CJ, Ellis MF. "Etiologies of Mandibular Fracture and Socioeconomic Disparities: An Epidemiological Analysis" *University of Illinois College of Medicine Research Symposium* (Chicago, IL: Nov 2019)
7. Chaker AN, Rosenberg D, Ryoo JS, Rosinski CL, Patil S, Geever B, Patel S, **Chiu RG**, Barrington N, Mudreac A, Fuentes A, Zhu A, Shah P, Mehta AI. "Delayed Restart of Antithrombotic Therapy and Rates of Adverse Events in Subdural Hematomas." *Congress of Neurological Surgeons Annual Meeting* (San Francisco, CA: October 2019)
8. **Chiu RG**, Zhu A, Zhao JW, Mehta AI. "Opioid disparities in the post-operative management of post-laminectomy syndrome." *National Collaborative for Education to Address the Social Determinants of Health, 2019 Annual Meeting* (Chicago, IL: May 2019)
9. **Chiu RG**, Patel S, Zhu A, Aguilar E, Mehta AI. "Endoscopic versus Open Decompression of Lumbar Spinal Stenosis: An International, Multi-Institutional Analysis" *Lumbar Spine Research Society 2019 Annual Meeting* (Chicago, IL: April 2019)
10. **Chiu RG**, Geever BW, Rosinski CL, Patel S, Selner AN, Chaker AN, Patel AS, Bhimani AD, Wonais MC, Arnone GD, Kumar P, Mehta AI. "Timing of restarting antiplatelet therapy following primary diagnosis of

intracerebral hemorrhage does not affect thirty-day adverse events.” *American Association of Neurological Surgeons Annual Meeting* (San Diego, CA: April 2019).

11. Rosinski CL, Geever BW, **Chiu RG**, Patel S, Chaker AN, Zakrzewski J, Parola R, Shah K, Rosenberg D, Behbahani M, Mehta AI. “Analysis of the Timing of VPS Placement in Patients Receiving Cranioplasty.” *American Association of Neurological Surgeons Annual Meeting* (San Diego, CA: April 2019).
12. Rosenberg D, Rosinski CL, Geever BW, Patel S, **Chiu RG**, Chaker AN, Zakrzewski J, Parola R, Shah K, Behbahani M, Mehta AI. “Cranioplasty Using Synthetic Polymers is More Frequently Infected than Cranioplasty Using Titanium.” *American Association of Neurological Surgeons Annual Meeting* (San Diego, CA: April 2019).
13. Rosinski CL, Chaker AN, Zakrzewski J, Geever BW, Patel S, **Chiu RG**, Rosenberg D, Parola R, Shah K, Behbahani M, Mehta AI. “Autologous Bone Cranioplasty: A Retrospective Comparison of Frozen and Subcutaneous Storage Methods.” *American Association of Neurological Surgeons Annual Meeting* (San Diego, CA: April 2019).
14. **Chiu RG**, Xia Y, Sharp LK, Gerber BS. “Impact of Community Health Promotors on Management of Type II Diabetes among African-American and Hispanic Patients” *American Medical Association Research Symposium* (National Harbor, MD; November 2018).
15. Rosenberg D, Rosinski CL, Geever B, Patel S, **Chiu R**, Chaker A, Zakrzewski J, Parola R, Shah K, Behbahani M, Mehta AI. “Cranioplasty Using Synthetic Polymers is More Frequently Infected than Cranioplasty Using Titanium.” *College of Medicine Research Symposium* (Chicago, IL: November 2018).
16. Rosinski CL, Chaker AN, Zakrzewski J, Geever B, Patel S, **Chiu R**, Rosenberg D, Parola R, Shah K, Behbahani M, Mehta AI. “Autologous Bone Cranioplasty: A Retrospective Comparison of Frozen and Subcutaneous Bone Flap Storage Methods.” *College of Medicine Research Symposium* (Chicago, IL: November 2018).
17. **Chiu RG**, Xia Y, Sharp LK, Gerber BS. “Impact of Community Health Promotors on Management of Type II Diabetes among African-American and Hispanic Patients” *College of Medicine Research Symposium* (Chicago, IL: November 2018). *Recipient of honorable mention.*
18. **Chiu RG**, Mehta AI. “*De novo* oligodendroglioma arising from a site of previous ischemic stroke with hemorrhage conversion.” *College of Medicine Research Symposium* (Chicago, IL: November 2018).
19. **Chiu RG**, Hobbs J, Esfahani DR, Patel S, Rosenberg D, Rosinski CL, Patel AS, Chaker AN, Mehta AI. “Anterior vs Posterior Approach for Thoracic Corpectomy: an Analysis of Risk Factors, Outcomes, and Complications” *Congress of Neurological Surgeons Annual Meeting* (Houston, TX: October 2018)
20. Bhimani AD, Esfahani DR, Denyer S, **Chiu RG**, Rosenberg D, Barks AL, Arnone GD, Mehta AI. (2018). “Adult Chiari I Malformations: An Analysis of Surgical Risk Factors and Complications using an International Database” *Congress of Neurological Surgeons Annual Meeting* (Houston, TX: October 2018)
21. Bhimani AD, **Chiu RG**, Esfahani DR, Patel AS, Denyer S, Mehta AI. (2018). “C1-C2 fusion versus occipito-cervical fusion for high cervical fractures” *Chicago Committee on Trauma (CCOT) Medical Students Paper Competition* (Maywood, IL: May 2018)
22. **Chiu RG**, Kos N, Patel K. “Management of the Oculocardiac Reflex in Pediatric Strabismus Surgery.” *UIC Mentors Program Poster Symposium* (Chicago, IL: March 2018)

RESEARCH EXPERIENCE

JAMA Student Leadership Group, JAMA Network (Jun 2019 – Jun 2020)

Supervisor: Edward Livingston, MD, FACS

- Member of the inaugural class of medical student scholars selected to work with the editorial staff of the JAMA publications in improving the journals' web and social media presence
- Wrote and published a JAMA Patient Page regarding treatment options for spinal metastases

Department of Neurosurgery, University of Illinois at Chicago (Dec 2017 – present)

PI: Ankit I. Mehta, MD, FAANS

- Developed and clinically validated software applications and devices to streamline multiple facets of operative and follow-up care of neurosurgical patients
- Conducted clinical research on perioperative outcomes following surgical intervention for degenerative, traumatic, and oncological spinal pathologies
- Researched the impact of socioeconomic factors (e.g. racial and gender disparities) and medico-legal issues (e.g. certificate-of-need laws, locum tenens neurosurgery) on neurosurgical care

Department of Internal Medicine, University of Illinois at Chicago (Jun – Aug 2018)

PI: Ben S. Gerber, MD, MPH

- Conducted a randomized controlled trial evaluating the efficacy of community health workers in management of patients with type II diabetes
- Supported financially by the University of Illinois College of Medicine's C.M. Craig Fellowship

Bloomberg School of Public Health, Johns Hopkins University (Jun 2018 – Dec 2019)

In partnership with Bach Mai Hospital (Hanoi, Vietnam)

PIs: Bach X. Tran, Ph.D., Quang Nguyen, D.Phil.

- Studied the epidemiology and management of neuropathic pain, tobacco use, and HIV/AIDS in urban and rural populations in Vietnam

Department of Radiology, Kaiser Permanente Los Angeles Medical Center (Jun – Dec 2018)

PI: George Vatakencherry, MD

- Assisted in the writing of a systematic review for medical students in understanding landmark trials within the field of neuro-interventional radiology regarding aneurysm treatment

WORK EXPERIENCE

Co-Founder and Creator, NeurosurgeryImplants.com (Jun 2020 – present), -5 hours per week

- Internet hub of surgeon- and industry-submitted radiographic images allowing for the swift identification of spinal implants and other neurosurgical devices
- Contains amalgamated, up-to-date information regarding the proper removal of neurosurgical implants, as well as any interactions with metal detectors and other devices

Podcast Head, UncleHarvey.com (Jun 2020 – present), -8 hours per week

- Oversaw the creation of a biweekly neurosurgery journal club podcast targeted to a medical student audience
- UncleHarvey.com is an online forum and amalgamation of resources for current and aspiring neurosurgeons, residents, and medical students. Examples of resources include advising/consulting services for residency and medical school applications, employment forums, billboard for research position openings, podcasts and book recommendations

Founder and Creator, PimpQuestions.com (Apr 2020 – present), -5 hours per week

- PimpQuestions.com is a crowdsourced online repository of user-submitted questions commonly asked to medical students in the operating room (referred to colloquially by surgeons as “pimp questions”)

Student Brand Ambassador, Kaplan Medical, Kaplan, Inc. (Jul 2018 – present), -2 hours per week

- Paid representative for Kaplan Medical in promoting preparation materials for the USMLE, clinical shelf exams, and pre-clinical coursework

Chief Technology Officer, Illinois.com, Inc. (Mar 2016 – May 2020), -10 hours per week

- Oversaw the creation of the Illinois.com website as an online hub for Illinois travel and tourism information
- Designed an email identity system whereby individuals and businesses can purchase subscriptions to @illinois.com e-mail addresses and .illinois.com subdomains
- Led a team consisting of web developers, software engineers and consultants
- Sold in May 2020 to Brent Oxley

Software Engineering Consultant, Topcoin LLC (Apr 2016 – Aug 2017), -40 hours per week

- Developed and maintained Internet pages for Topcoin LLC
- Assisted in establishment of a new digital currency (Topcoin) based on blockchain technologies

Senior Technology Consultant, Raise Marketplace, Inc. (May – Aug 2015), -40 hours per week

- Oversaw the incorporation of de-centralized digital currencies into the payment system of Raise, an application that allows users to exchange gift cards for a cash equivalent

Director of Mobile Applications, The Chicago Sun-Times (May – Aug 2014), -40 hours per week

- Designed and created the newspaper's first iPhone/iOS phone application

PATENTS, INNOVATIONS, AND TRADEMARKS

- Method of Pharmacological Delivery in Spinal Fusion, Provisional Patent
- Blockchain Payment Verification System, Patent Pending, Patent Application No. 14/791,781
- Chicago.surgery™
- Illinois.com™
- *.Illinois™ (dot Illinois) geographic top-level domains (GeoTLDs)
- *.Chicago™ (dot Chicago) GeoTLDs

VOLUNTEER EXPERIENCE

Standardized Patient for COVID-19 Training, Illinois Department of Public Health (Apr – May 2020)

-8 hours per week

- Assisted physicians in the Chicago area in improving their recognition of suspected COVID-19 symptomatology in the early stages of the pandemic, by volunteering as a standardized patient

Reviewer, *Global Spine Journal* (Aug 2019 – present)

-2 hours per week

Medical Tent Volunteer, 2018 Chicago Marathon (Oct 2018)

- 8 hours

- Evaluated patients with marathon-related injuries, heat stroke, and dehydration

Clinical and Research Volunteer, Bach Mai Hospital System (Hanoi, Vietnam) (Jun 2018 – Dec 2019)

-10 hours per week

- Organized and assisted in the conduction of needle exchange and smoking cessation programs in rural Vietnamese clinics
- Piloted and researched the efficacy of innovative forms of these programs
- Ceased after outbreak of COVID-19 pandemic

Reviewer, *AMA Journal of Ethics* (Jun 2018 – present)

-2 hours per week

Asian Pacific American Medical Student Association, Health Fairs, Aug 2017 – Nov 2019

-5 hours per month

- Participated in the healthcare maintenance of uninsured or underinsured patients in Chicago's Chinatown and Argyle Street neighborhoods

New Life Volunteering Society Free Clinic, Aug 2017 – Sep 2019

- 6 hours per month

- Participated in the healthcare maintenance of uninsured or underinsured patients in a predominantly South Asian patient population in Chicago's North Side

ADVOCACY AND POLICY WORK

Resolutions:

1. Siddiqui N, **Chiu RG**, Ghamsari F. *01.2020-33 Increased Patient Access to Online Immunization Records*. (2020). Illinois State Medical Society Policy Digest.
2. Siddiqui N, **Chiu RG**, Issa T, Keni P. *01.2020-34 Increasing All-Payer Coverage of Vaccines*. (2020). Illinois State Medical Society Policy Digest.
3. **Chiu RG**, Hom M. *460.023MSS Reducing the Cost of Centers for Medicare and Medicaid Services Limited Data Sets for Academic Use*. (2019). American Medical Association-Medical Student Section Digest of Policy Actions.
4. Magrath J, **Chiu RG**, Palmer P, Reddy R, Lee D, Morcos D, Pavuluri H, Wase S, Hom M. *480.025MSS Ethics and Security of Brain-Computer Interfaces*. (2019). American Medical Association-Medical Student Section Digest of Policy Actions.
5. Lee D, **Chiu RG**, Farber O. *60.027MSS National Guidelines for Guardianship*. (2018). American Medical Association-Medical Student Section Digest of Policy Actions.
6. Sohl B, Chammaa M, Kineish A, Lalk K, Moses T, Quaal H, Wilson J, **Chiu RG**, Foster H, Huynh P, Shpilberg J. *Oppose Mandated Reporting of People Who Question Their Gender Identity*. (2018). American Medical Association-Medical Student Section Digest of Policy Actions.

Health Policy Reports, Briefs and Commentary:

1. MSS Committee on Scientific Issues and Committee on Health Information Technology. *Improving Research Standards, Approval Processes, and Post-market Surveillance Standards for Medical Devices*. (2020).

CLINICAL/PROFESSIONAL INTERESTS

- Neuro-oncology
- Functional neurosurgery
- Spine and peripheral nerves
- Surgical innovation, medical software/device development
- Socioeconomic and medico-legal issues in neurosurgery
- Medical education

HOBBIES AND ACTIVITIES

- Road trips (and travelling in general)
- Historical and dystopian fiction movies, shows and books
- Chess (competitive/tournament player, former member of Illinois high school state championship team)
- Biking (leisurely)
- Country music