

Position: Assistant Professor, Department of Neurological Surgery

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EDUCATION AND TRAINING:

8/2017-12/2018	Johns Hopkins Hospital Baltimore, MD	Fellow	Complex Spine Surgery
6/2011-6/2017	University of California, San Francisco, CA	Resident	Neurological Surgery
8/2006-2011	Harvard Medical School, Massachusetts Institute of Technology, Health Sci & Technology, Boston, MA	M.D.*	Neuroscience Honors Thesis <i>*Cum Laude</i>
1/2005-3/2005	Cambridge University, Cambridge, UK		Physiology, Study Abroad
9/2002-6/2006	California Institute of Technology, Pasadena, CA	B.S.*	Biology, Literature <i>*With Honors</i>

SELECTED HONORS AND AWARDS:

2017-2018	AO Spine Fellowship, Johns Hopkins Hospital
2017	High Impact Manuscript Award, <i>Neurosurgery</i>
2016	UCSF Excellence and Innovation Award in Graduate Medical Education
2016	UCSF Sustainability Award from Chancellor for Project on OR Waste
2016	UCSF Health "Great Save Award", Award from CEO for OR Surgical Cost Reduction Project
2016	Best Senior Clinical Research Presentation, UCSF Resident Research Day
2015	UCSF Center for Healthcare Value Fellowship
2015	Naffziger Award for Outstanding Clinical Resident, UCSF Neurosurgery Department
2015	UCSF CTSI Catalyst Award, Development of Doctor Mobile App that Decreases Costs
2014	UCSF Caring Wisely Grant, OR SCORE (OR Surgical Cost Reduction Project)
2011	<i>Cum laude</i> , Harvard Medical School
2011	Seidman Prize for Outstanding Senior Medical Student Thesis, Harvard Medical School
2008-2009	Howard Hughes Medical Institute Research Fellowship for Medical Students
2006-2008	Paul and Daisy Soros National Fellowship for New Americans
2006	Mabel Beckman Award, Caltech Commencement Prize to Top Graduating Woman
2005	Jack E. Froehlich Award, Caltech Academic Prize to Top Junior
2002-2006	Axline and Lingle Awards, Caltech Full-Tuition Merit Scholarships
2002	Neuroscience Research Prize, American Academy of Neurology & Child Neurology Society
2002	<i>USA Today</i> All-USA High School Academic First Team
2002	United States Presidential Scholar

BOARD ELIGIBILITY:

2016 American Board of Neurological Surgery Primary Examination: Score 657 (Pass; 88th %ile)

LICENSURES:

2012-2020 Physician and Surgeon License, The Medical Board of California

2017-2020 Physician and Surgeon License, Maryland Board of Physicians

PROFESSIONAL MEMBERSHIPS:

American Association of Neurological Surgeons

Congress of Neurological Surgeons

Aesculapian Club of Harvard Medical School

PROFESSIONAL COMMITTEES:

2017-present Neurosurgery Quality Council, American Association of Neurological Surgeons/Congress of Neurological Surgeons

- Member of committee focused on health policy issues, part of the Washington Committee

2017-2018 Neurosurgery representative, Hopkins Bayview Spine Core team

- Created and implemented Enhanced Recovery after Spine Surgery (ERAS) pathway together with team of nurses, physicians, and administrators

2015-2016 Surgical consultant, UCSF Perioperative Redesign Project

- Working with team of senior administrators, surgeons, and nurses to review instrument sets and preference cards across all UCSF surgical departments in order to improve OR efficiency

2014-2015 Neurosurgery champion, UCSF Caring Wisely Blood Transfusion Reduction Project

- Created blood transfusion protocol to reduce transfusions among neurospine patients

2013-2014 Neurosurgery representative, UCSF Living PRIDE Physician Champion Committee

- Created pre-operative expectations letters and neurosurgery provider photo brochure that are now provided to all neurosurgery patients at UCSF Parnassus hospital

TEACHING AND MENTORSHIP:

2013-present Research mentor/collaborator for multiple undergraduate and medical students

2018 Invited Teacher, Johns Hopkins School of Medicine Choosing Wisely Event

2015-2016 Teacher, biweekly educational sessions for UCSF neurosurgical interns

2015-2016 Official resident mentor for two first year medical students, UCSF Surgery Interest Group

2015-2017 Invited Teacher, UCSF Health Policy Course for medical students; Topic- Physician Reimbursement

2015 Invited Expert, NEJM Open Forum, High Value Care in Daily Practice

2013 Individual mentor for 3-week undergraduate student shadowing program

SERVICE:

2015 Participant, Mission: BRAIN Neurosurgical Mission Trip to Guadalajara, Mexico

GRANTS/RESEARCH FUNDING:

2015-2016 UCSF Center for Healthcare Value Fellowship

- PI of projects to reduce surgical costs at UCSF, identify and characterize operating room waste, and understand the factors underlying cost variation in neurosurgical procedures

2015-2016 UCSF CTSI Catalyst Grant

- PI of project to develop price transparency mobile application to decrease surgical costs

2014-2015 UCSF Caring Wisely Grant

- PI of hospital-wide project to reduce surgical costs in the operating room
- 2008-2009 Howard Hughes Medical Institute Research Fellowship for Medical Students, Harvard Medical School
 - Examined downstream mediators of Sox6 over cortical interneuron development
- 2003-2005 Summer Undergraduate Research Fellowships, Caltech
 - Investigated the role of frontoinsula cortex in detection of social emotions
- 2001 High School Summer Research Fellowship, Research Science Institute, MIT
 - Mapped quantitative trait loci for size of ventricles in mice brains

PEER-REVIEWED ORIGINAL RESEARCH:

1. **CC Zygourakis**, AK Ahmed, S Kalb, AM Zhu, A Bydon, N Crawford, N Theodore. Technique: Open Lumbar Decompression and Fusion with the ExcelsiusGPS Robot. **Neurosurgery Focus** Jul 45(Video Supp 1):V6 (2018).
2. **CC Zygourakis**, AM DiGiorgio, CL Crutcher, MM Safaee, FH Nicholls, C Dalle Ore, AK Ahmed, V Deviren, CP Ames. The Safety and Efficacy of CT-Guided, Fluoroscopy-Free Vertebroplasty in Adult Spinal Deformity Surgery. **World Neurosurgery** May 29 [Epub ahead of print] (2018).
3. S Yoon, **CC Zygourakis**, J Seaman, M Zhu, AK Ahmed, T Kliot, S Antrum, AN Goldberg. The Implementation and Impact of a Hospital-Wide Instrument Set Review at a Tertiary Care Facility. **American Journal of Medical Quality** Jun 1 [Epub ahead of print] (2018) **Conceived and designed study; worked closely with administrators, nurses, sterile processing, and surgeons to perform quality improvement intervention. Served as neurosurgery champion for project.*
4. S Yeramani, CP Ames, S Bess, D Burton, JS Smith, S Glassman, JL Gum, L Carreon, A Jain, **C Zygourakis**, I Avramis, R Hostin, International Spine Study Group. Center Variation in Episode-of-Care Costs for Adult Spinal Deformity Surgery: Results from a Prospective, Multicenter Database. **The Spine Journal**, Mar 22 [Epub ahead of print] (2018) **Obtained cost data for this multicenter collaborative study.*
5. MM Safaee, C Dalle Ore, **CC Zygourakis**, V Deviren, CP Ames. The unreimbursed costs of preventing revision surgery in adult spinal deformity: analysis of cost effectiveness of proximal junctional failure prevention with ligament augmentation. **Neurosurgery Focus**, May 44(5):E13 (2018). **Conceived and designed the study; obtained cost data. Assisted with data analysis and interpretation; critically revised the final manuscript.*
6. Z Pennington, **CC Zygourakis**, AK Ahmed, S Kalb, AM Zhu, N Theodore. Immediate Improvement of Intraoperative Monitoring Signals Following CSF Release for Cervical Spine Stenosis: Case Report. **Journal Clinical Neuroscience**, Apr (18)30112-7 (2018). **Performed surgery with the senior author. Critically revised the manuscript.*
7. **CC Zygourakis***, C Liu*, M Keefe, C Moriates, J Ratliff, RA Dudley, R Gonzales, P Mummaneni, C Ames. Analysis of National Rates, Cost, and Sources of Variation in Cost for Adult Spinal Deformity Surgery. (*Co first-authors) **Neurosurgery**, Mar 1;82(3):378-387 (2018).
8. **CC Zygourakis***, C Liu*, S Yoon, C Moriates, RA Dudley, MT Lawton, P Theodosopoulos, MS Berger, R Gonzales. Analysis of Cost Variation in Craniotomy for Tumor using Two National Databases. (*Co first-authors) **Neurosurgery**, Dec 1;81(2):331-340 (2017).
9. **CC Zygourakis***, C Liu*, G Wakam, C Moriates, C Ames, P Mummaneni, J Ratliff, RA Dudley, R Gonzales. Geographic and Hospital Variation in Cost of Lumbar Laminectomy and Lumbar Fusion for Degenerative Conditions. (*Co first-authors) **Neurosurgery**, Aug 1; 81(2):331-340 (2017).
10. C Liu*, **CC Zygourakis***, S Yoon, T Kliot, C Moriates, J Ratliff, RA Dudley, R Gonzales, P Mummaneni, C Ames. Trends in Utilization and Cost of Cervical Spine Surgery Using the National Inpatient Sample Database, 2001-2013. (*Co first-authors) **Spine**, Aug 42(15)LE906-913 (2017).
11. **CC Zygourakis**, V Valencia, C Moriates, C Boscardin, S Catschegn, KJ Bozic, K Soo Hoo, A Rajkomar, A Goldberg, L Pitts, MT Lawton, A Dudley, R Gonzales. Association between Surgeon Scorecard Use and Operating Room Costs. **JAMA Surgery**, Mar 152(3):284-91 (2017) (2017).

12. **CC Zygourakis**, M Keefe, J Lee, J Barba, Michael W McDermott, P Mummaneni, MT Lawton. Comparison of Patient Outcomes in 3,725 Overlapping versus 3,633 Non-Overlapping Neurosurgical Procedures Using a Single Institution's Clinical and Administrative Database. **Neurosurgery**, Feb 80(2):257-38 (2017).
13. **CC Zygourakis***, S Yoon*, V Valencia, C Boscardin, C Moriates, R Gonzales, MT Lawton. Operating Room Waste: Disposable Supply Utilization in Neurosurgical Procedures. (*Co first-authors) **Journal of Neurosurgery**, Feb 126(2):620-625 (2017).
14. **CC Zygourakis**, E Winkler, L Pitts, L Hannegan, B Franc, MT Lawton. Clinical Utility and Cost Analysis of Routine Postoperative Head CT in Elective Aneurysm Clippings. **Journal of Neurosurgery**, Feb 126(2):558-563 (2017).
15. **CC Zygourakis**, J Lee, J Barba, E Lobo, MT Lawton. Performing Concurrent Operations in Academic Vascular Neurosurgery Does Not Affect Patient Outcomes. **Journal of Neurosurgery**, Jan 20:1-7 (2017).
16. **CC Zygourakis**, S Sizdahkhani, M Keefe, J Lee, D Chou, P Mummaneni, CP Ames. Comparison of Patient Outcomes and Cost of Overlapping vs Non-overlapping Spine Surgery. **World Neurosurgery**, Apr 100:658-664 (2017).
17. **CC Zygourakis**, B Imber, R Chen, S Han, L Blevins, A Molinaro, JG Kahn, MK Aghi. Cost-Effectiveness Analysis for Surgical versus Medical Treatment of Prolactinomas. **Part B Journal of Neurological Surgery Skull Base**, Apr 78(2):125-131 (2017).
18. M Keefe, **CC Zygourakis**, A Theologis, E Canepa, JD Shaw, LH Goldman, S Burch, S Berven, D Chou, B Tay, P Mummaneni, V Deviren, CP Ames. Sexual Function after Cervical Spine Surgery: Independent Predictors of Functional Impairment. **Journal of Clinical Neuroscience**, Feb 36:94-101 (2017). **Assisted with data collection and statistical analysis, as well as drafting and revising manuscript.*
19. **CC Zygourakis**, V Valencia, C Boscardin, RU Nayak, C Moriates, R Gonzales, P Theodosopoulos, MT Lawton. Predictors of Variation in Neurosurgical Supply Costs and Outcomes Across 4,904 Surgeries at a Single Institution. **World Neurosurgery**, Dec 96:177-183 (2016).
20. A Theologis, L Miller, M Callahan, D Lau, **CC Zygourakis**, JK Scheer, S Burch, M Pekmezci, D Chou, B Tay, P Mummaneni, S Berven, V Deviren, CP Ames. The Economic Impact of Revision Surgery for Proximal Junctional Failure after Adult Spinal Deformity Surgery: A Cost Analysis of 57 Operations in a 10-Year Experience at a Major Deformity Center. **Spine**, 41(16): E965-72 (2016). **Obtained cost data for the analysis.*
21. S Han, JD Rolston, **CC Zygourakis**, MZ Sun, MW McDermott, CY Lau, MK Aghi. Preventing delays in first-case starts on the neurosurgery service: A resident-led initiative at an academic institution. **Journal of Surgical Education** pii:S1931-7204(15)00248-2 (2016). **Assisted with program implementation and critically revised manuscript.*
22. T Kliot, **CC Zygourakis**, S Imershein, C Lau, M Kliot. The Impact of a Patient Education Bundle on Neurosurgery Patient Satisfaction. **Surg Neurol Int**, 6(Supp 22):S567-72 (2015). **Conceived and designed the study; drafted and critically revised the manuscript.*
23. Z Medress, RT Arrigo, M Hayden Gephart, **CC Zygourakis**, M Boakye. Cervical Fracture Stabilization within 72 Hours of Injury is Associated with Decreased Hospitalization Costs with Comparable Perioperative Outcomes in a Propensity Score-Matched Cohort. **Cureus** 7(1):e244 (2015). **Assisted with manuscript preparation.*
24. **CC Zygourakis**, V Vasuveda, PMR Lai, AH Kim, HJ Wang, R Du. Transient Pupillary Dilation Following Local Papaverine Application in Intracranial Aneurysm Surgery. **Journal of Clinical Neuroscience**, 22(4):676-679 (2015).
25. **CC Zygourakis**, J Rolston, H Lee, C Partow, S Kunwar, M Aghi. Pituicytomas and Spindle Cell Oncocytomas: Modern Case Series from The University of California, San Francisco. **Pituitary**, 18(1):150-158 (2015).
26. **CC Zygourakis**, J Davis, G Kaur, C Ames, N Gupta, K Auguste, AT Parsa. Management of Central Nervous System Teratomas. **Journal of Clinical Neuroscience**, 22(1):98-104 (2015).
27. **CC Zygourakis**, T Oh, M Sun, I Barani, JG Kahn, AT Parsa. Surgery is Cost-Effective Treatment for Young Patients with Vestibular Schwannomas: Decision Tree Modeling of Surgery, Radiation, and Observation. **Neurosurgery Focus**, 37(5):E8 (2014).

28. A Jahangari, J Wagner, SW Han, **CC Zygourakis**, S Han, MT Tran, LM Miller, MW Tom, S Kunwar, L Blevins, MK Aghi. Morbidity of Repeat Transsphenoidal Surgery Assessed in Over 1000 Operations. **Journal of Neurosurgery**, 121(1):67-74 (2014). **Obtained cost data and performed cost analysis.*
29. **CC Zygourakis**, ME Sughrue, AT Parsa, MS Berger, MW McDermott. Management of Planum/Olfactory Meningiomas: Predicting Symptoms and Post-operative Complications. **World Neurosurgery**, 82(6):1216-1223 (2014).
30. **CC Zygourakis**, G Kaur, S Kunwar, MW McDermott, M Madden, T Oh, AT Parsa. Modern Treatment of 84 Newly Diagnosed Craniopharyngiomas. **Journal of Clinical Neuroscience**, 21(9):1558-1566 (2014).
31. MG Hayden Gephart, **CC Zygourakis**, RT Arrigo, PS Kalanithi, SP Lad, M Boakye. Venous Thromboembolism after Thoracic/Thoracolumbar Spinal Fusion. **World Neurosurgery**, 78(5):545-552 (2012). **Assisted with manuscript preparation.*
32. M Boakye, RT Arrigo, MG Hayden Gephart, **CC Zygourakis**, SP Lad. Retrospective, Propensity Score-Matched Cohort Study Examining Timing of Fracture Fixation for Traumatic Thoracolumbar Fractures. **Journal of Neurotrauma**, 29(12):2220-2225 (2012). **Assisted with manuscript preparation.*
33. MG Hayden Gephart, R Lober, RT Arrigo, **CC Zygourakis**, R Guzman, M Boakye, PG Fisher. Trends in the Diagnosis and Treatment of Pediatric Primary Spinal Cord Tumors. **Journal of Neurosurgery: Pediatrics**, 10(6):555-559 (2012) **Assisted with manuscript preparation.*
34. **CC Zygourakis**, KS Cahill, and MR Proctor. Delayed Development of Os Odontoideum after Traumatic Cervical Injury: A Case Report Supporting a Delayed Vascular Etiology of Os Odontoideum after Trauma. **Journal of Neurosurgery: Pediatrics**, 7(2): 201-204 (2011).
35. KS Bohl-Masters, EA Lipke, EH Rice, MS Liehl, HA Myler, **C Zygourakis**, DA Tulis, and J West. Nitric Oxide-Generating Hydrogels Inhibit Neointima Formation. **Journal of Biomaterials Science**, 16(5):659-672 (2005). **Assisted with lab experiments.*
36. **CC Zygourakis** and GD Rosen. Quantitative Trait Loci for Murine Cerebroventricular Size. **Journal of Comparative Neurology**, 461:362-369 (2003).

PEER-REVIEWED OTHER PUBLICATIONS:

37. H Birk, **CC Zygourakis**, M Kliot. Developing an Algorithm for Cost-Effective, Clinically Judicious Management of Peripheral Nerve Sheath Tumors. **Surg Neurol Int**, Aug 26;7:80 (2016) **Conceived and designed study; obtain cost data and helped perform cost analysis. Helped draft and critically revise article.*
38. **CC Zygourakis**, JG Kahn. Cost-Effectiveness in Neurosurgery: A Review. **Neurosurgery Clinics North America**, 26(2):189-96 (2015).
39. J Rolston, **CC Zygourakis**, SJ Han, C Lau, MS Berger, AT Parsa. Medical Errors in Neurosurgery: A Systematic Review. **Surg Neurol Int**, Oct 13 (5):S435-440 (2014). **Critically revised article.*
40. **CC Zygourakis**, J Rolston, J Treadway, M Kliot. What Do The Hotel and Hospital Stay Experiences Have in Common? How the Hotel Industry Can Teach Us to Take Better Care of Patients. **Surg Neurol Int**, Mar 29 (5):S49-53 (2014).
41. SJ Han, **CC Zygourakis**, M Lim, AT Parsa. Immunotherapy for glioma: promises and challenges. **Neurosurgery Clinics North America**, 23(3):357-370 (2012). **Drafted and critically revised this review article.*

BOOK CHAPTERS:

1. **CC Zygourakis**, D Chou. Posterolateral Thoracotomy. Spinal Tumor Surgery: A Case-Based Approach.
2. A Sacino, **CC Zygourakis**, CP Ames. Physical Examination of Cervical Deformity. Prepared for Cervical Spine Deformity Surgery. **Assisted with drafting and critically revising chapter.*

3. Z Pennington, **CC Zygourakis**, CP Ames. Risk Adjustment Methodologies. Prepared for Quality Spine Care; Healthcare Systems, Quality Reporting, and Risk Adjustment. **Assisted with drafting and revising chapter.*
4. **CC Zygourakis**, D Lau, CP Ames. Osteoporosis: Diagnosis, Treatment, and Preoperative Bone Optimization. Prepared for the Lumbar Spine Online Textbook, International Society for the Study of Lumbar Spine (ISSLS).
5. **CC Zygourakis**, CP Ames. Upper Cervical Spine- Posterior Cage Reconstruction C1-2. Cervical Spine Surgery, Advanced & Standard Techniques, Cervical Spine Research Society (CSRS)- Europe.
6. **CC Zygourakis**, CP Ames. C7 Pedicle Subtraction Osteotomy (PSO). Cervical Spine Surgery, Advanced & Standard Techniques, Cervical Spine Research Society (CSRS)- Europe.
7. PE Tarapore, **CC Zygourakis**, S Cha, MS Berger. Adult Neoplasia, Oxford Textbooks in Clinical Neurology: Neuroimaging. **Drafted and critically revised chapter.*
8. **C Zygourakis**, R Garcia, MW McDermott. Meningiomas. Neuro-Oncology: The Essentials. Eds. M Bernstein, MS Berger.

NATIONAL PRESENTATIONS (ORAL/POSTER):

1. *Enhanced Recovery After Spine Surgery*, (**CC Zygourakis**, R Young, E Cottrill, AK Ahmed, AM Zhu, Z Pennington, et al.) **Oral Presentation**, UCSF Techniques in Complex Spine Surgery Course, Las Vegas, NV (2018).
2. *Robot-Assisted Pedicle Screw Placement* (**CC Zygourakis**, N Theodore) **Oral Presentation**, Spine Summit Meeting, Orlando, FL (2018).
3. *Trends in Cost and Utilization in Spine Surgery*, (**CC Zygourakis**) **Oral Presentation**, UCSF Techniques in Complex Spine Surgery Course, Las Vegas, NV (2017).
4. *Direct Cost Analysis of 38 Cervical Spinal Deformity Operations Across Two Major Spinal Deformity Centers with Implications for Catastrophic Costs and 90-Day Cost Bundles*, (**CC Zygourakis**, J Scheer, L Upton, Seungwon Yoon, S Yeramaneni, R Hostin, M O'Brien, C Shaffrey, J Smith, V Deviren, CP Ames) **Oral Presentation**, Congress of Neurological Surgeons, Boston, MA (2017).
5. *Comparison of Patient Outcomes in 3,725 Overlapping versus 3,633 Non-Overlapping Neurosurgical Procedures at a Single Institution* (**CC Zygourakis**, M Keefe, J Lee, J Barba, Michael W McDermott, P Mummaneni, MT Lawton, **Oral Presentation**, General Scientific Session, Congress of Neurological Surgeons, Boston, MA (2017).
6. *Direct Cost Analysis of 38 Cervical Spinal Deformity Operations Across Two Major Spinal Deformity Centers with Implications for Catastrophic Costs and 90-Day Cost Bundles*, (**CC Zygourakis**, J Scheer, L Upton, Seungwon Yoon, S Yeramaneni, R Hostin, M O'Brien, C Shaffrey, J Smith, V Deviren, CP Ames) **Oral Presentation**, Cervical Spine Research Society Meeting, Salzburg, Austria (2017).
7. *Trends in Utilization and Cost of Cervical Spine Surgery Using the National Inpatient Sample Database, 2001-2013*, (**CC Zygourakis**, C Liu, S Yoon, T Kliot, C Moriates, J Ratliff, RA Dudley, R Gonzales, P Mummaneni, CP Ames), **Oral Presentation**, Cervical Spine Research Society Meeting, Salzburg, Austria (2017).
8. *Comparison of Patient Outcomes and Cost of Overlapping vs Non-overlapping Spine Surgery*, (**CC Zygourakis**, S Sizardkhani, M Keefe, J Lee, D Chou, P Mummaneni, CP Ames), **Oral Presentation**, Spine Summit Meeting, Las Vegas, NV (2017).
9. *Geographic and Hospital Variation in Cost of Lumbar Laminectomy and Lumbar Fusion for Degenerative Conditions*, (**CC Zygourakis**, C Liu*, G Wakam, C Moriates, C Ames, P Mummaneni, J Ratliff, RA Dudley, R Gonzales), **Oral Presentation**, Spine Summit Meeting, Las Vegas, NV (2017).
10. *Comparison of Patient Outcomes and Cost of Overlapping vs Non-overlapping Spine Surgery*, (**CC Zygourakis**, S Sizardkhani, M Keefe, J Lee, D Chou, P Mummaneni, CP Ames), **Oral Presentation**, California Association of Neurological Surgeons, San Francisco, CA (2017).
11. *OR SCORE: A Prospective Controlled Trial of the Effect of Surgeon Scorecards on Operating Room Costs*, **CC Zygourakis**, V Valencia, C Moriates, S Catschegn, A Afshar, K Bozic, K Soo Hoo, A Goldberg, C Boscardin, R

- Gonzales, L Pitts, MT Lawton), **Oral Presentation**, American Academy of Neurological Surgeons, Jackson Hole, WY (2016).
12. *Comparison of Patient Outcomes in 3,725 Overlapping versus 3,633 Non-Overlapping Neurosurgical Procedures at a Single Institution* (**CC Zygourakis**, M Keefe, J Lee, J Barba, Michael W McDermott, P Mummaneni, MT Lawton, **Oral Presentation**, General Scientific Session, Congress of Neurological Surgeons, San Diego, CA (2016).
 13. *A Prospective Controlled Trial of the Effect of Surgeon Cost Reduction Scorecards on Operating Room Surgical Cost Reduction (OR SCORE)*, (**CC Zygourakis**, V Valencia, C Moriates, S Catschegn, A Afshar, K Bozic, K Soo Hoo, A Goldberg, C Boscardin, R Gonzales, L Pitts, MT Lawton), **Oral Presentation**, Congress of Neurological Surgeons, San Diego, CA (2016).
 14. *Significant Inter-Hospital Variation in Cranial Surgery Costs Using the Nationwide Inpatient Sample (NIS) Database*, (**CC Zygourakis**, C Liu, P Theodosopoulos, MT Lawton, RA Dudley, R Gonzales), **Oral Presentation**, Congress of Neurological Surgeons, San Diego, CA (2016).
 15. *Predictors of Variation in Neurosurgical Supply Costs and Outcomes Across 4,904 Surgeries at a Single Institution*, (**CC Zygourakis**, V Valencia, C Boscardin, R Nayak, C Moriates, R Gonzales, P Theodosopoulos, MT Lawton), Digital Poster, Congress of Neurological Surgeons, San Diego, CA (2016).
 16. *Predictors of Surgical Supply Cost in Anterior Cervical Discectomy and Fusion*, (**CC Zygourakis**, WHA Ryu, V Valencia, R Gonzales, A Theologis, B Tay, C Ames, D Chou, S Berven, P Mummaneni), Digital Poster, Congress of Neurological Surgeons, San Diego, CA (2016).
 17. *Operating Room Waste: Disposable Supply Utilization in Neurosurgical Procedures*, (**CC Zygourakis**, S Yoon, V Valencia, C Boscardin, C Moriates, R Gonzales, MT Lawton), E-Poster Presentation, American Association of Neurological Surgeons, Chicago, IL (2016).
 18. *Cost-Effectiveness Analysis of Surgical vs Medical Treatment of Prolactinomas*, (**CC Zygourakis**, B Imber, R Chen, S Han, L Blevins, A Molinaro, JG Kahn, MK Aghi), E-Poster Presentation, American Association of Neurological Surgeons, Chicago, IL (2016).
 19. *Sexual Function after Cervical Spine Surgery: Novel Analysis of Independent Predictors of Functional Impairment*, (M Keefe, **CC Zygourakis**, A Theologis, E Canepa, JD Shaw, LH Goldman, S Burch, S Berven, D Chou, B Tay, P Mummaneni, V Deviren, C Ames), E-Poster, American Association of Neurological Surgeons, Chicago, IL (2016).
 20. *OR SCORE: Reducing Operating Room (OR) Costs Through a Hospital-Wide Price Transparency Initiative*, (**CC Zygourakis**, V Valencia, C Moriates, S Catschegn, A Afshar, K Bozic, K Soo Hoo, A Goldberg, C Boscardin, R Gonzales, L Pitts, MT Lawton), **Oral Presentation**, Congress of Neurological Surgeons, New Orleans, LA (2015).
 21. *The Economic Impact of Revision Surgery for Proximal Junctional Failure After Adult Spinal Deformity (ASD) Surgery: A Cost Analysis of 70 Proximal Junctional Failures in 464 ASD Surgeries*, (A Theologis, **CC Zygourakis**, M Callahan, D Lau, J Scheer, S Burch, M Pekemzci, D Chou, B Tay, P Mummaneni, S Berven, V Deviren, C Ames) Neurosurgical Forum Poster, Congress of Neurological Surgeons, New Orleans, LA (2015).
 22. *OR SCORE: Reducing Operating Room Costs Through a Hospital-Wide Price Transparency Initiative*, **CC Zygourakis, Invited Speaker, ABIM Foundation, Costs of Care**, Teaching Value in Healthcare Learning Network Webinar Series (2015).
 23. *Clinical Utility and Cost-Effectiveness of Routine Post-operative Head CTs in Elective Aneurysm Clippings*, (**CC Zygourakis**, E Winkler, L Pitts, L Hannegan, JG Kahn, MT Lawton), **Oral Presentation**, American Association of Neurological Surgeons, Washington, D.C. (2015).
 24. *Surgical Treatment of Prolactinomas is Less Expensive Than Medical Management*, (**CC Zygourakis**, BS Imber, S Han, L Blevins, JG Kahn, M Aghi), E-Poster, Congress of Neurological Surgeons, Boston, MA (2014).
 25. *What It Costs to Treat Vestibular Schwannomas: Decision-Tree Modeling of Surgical versus Non-Surgical Treatments*, (**CC Zygourakis**, T Oh, M Sun, C Partow, J Kahn, AT Parsa), E-Poster (**3rd Place, Socioeconomic Poster**), American Association of Neurological Surgeons, San Francisco, CA (2014).

26. *Modern Treatment of Planum/Olfactory Meningiomas*, (**CC Zygourakis**, ME Suhgrue, AT Parsa, MS Berger, MW McDermott), E-Poster, 10th Annual Tumor Symposium, American Association of Neurological Surgeons, New Orleans, LA (2013).
27. *Venous Thromboembolism Following Thoracic/Thoracolumbar Spinal Fusion*, (MG Hayden Gephart, **CC Zygourakis**, RT Arrigo, P Kalanithi, SP Lad, M Boayke), E-Poster, American Association of Neurological Surgeons, Denver, CO (2011).
28. *Transient Pupillary Dilation following Local Papaverine Application in Intracranial Aneurysm Surgery*, (**CC Zygourakis**, AH Kim, HJ Wang, R Du), E-Poster, American Association of Neurological Surgeons-Cerebrovascular Section, Los Angeles, CA (2011).
29. *Downstream Mediators of Sox6 Control over Cortical Interneuron Development*, (EA Azim, **CC Zygourakis**, JD Macklis), Poster, Society for Neuroscience, Chicago, IL (2009).
30. *The Role of the Frontoinsular (FI) Cortex in Social Cognition: FI Lesions Impair Ability to Detect Shame, Guilt, Embarrassment, and Empathy*, (**CC Zygourakis**, R Adolphs, J Allman), Poster, Cognitive Neuroscience Society, San Francisco, CA (2006).
31. *Mapping Quantitative Trait Loci for Murine Cerebroventricular Size*, (**CC Zygourakis** and GD Rosen), **Invited Oral Presentation**, International Complex Trait Consortium, Memphis, TN (2002).
32. *Mapping Quantitative Trait Loci for Murine Cerebroventricular Size*, (**CC Zygourakis** and GD Rosen), Neuroscience Prize, **Invited Oral Presentation**, Child Neurology Society, Washington D.C (2002).