

JESSICA K. CAMPOS

(224) 867-7997 • campos@jhmi.edu

EDUCATION AND TRAINING

Undergraduate

2012 B.E., Chemical & Biomolecular Engineering, Vanderbilt University School of Engineering,
Nashville, TN

Doctoral/Graduate

2017 M.D., Loyola University Chicago Stritch School of Medicine, Maywood, IL

Postdoctoral

2017 Research Fellow, Endovascular Neurosurgery, Johns Hopkins University School of Medicine
Baltimore, MD

CERTIFICATION EXAMS

June 2014 United States Medical Licensing Examination, Step 1 - *Passing score*

Aug. 2016 United States Medical Licensing Examination, Step 2 CS - *Passing score*

Jan. 2017 United States Medical Licensing Examination, Step 2 CK - *Passing score*

RESEARCH

Division of Endovascular Neurosurgery, Department of Neurosurgery

Baltimore, MD

Johns Hopkins University School of Medicine

March 2017 - Present

Postdoctoral Research Fellow

Clinical investigations of neurointerventional approaches to cerebrovascular pathology and traumatic brain injury.

Alexander L. Coon, M.D.

Loyola Burn Center, Loyola University Medical Center, Department of Surgery

Maywood, IL

Student Researcher

Feb. 2015 – Aug. 2016

The effect of socioeconomic status and parental demographics on activation of department of child and family services in pediatric burn injury

Michael J. Mosier, M.D.

Loyola University Medical Center, Department of Neurological Surgery

Maywood, IL

Student Researcher

Oct. 2012 – Present

Diffusion Tensor Imaging: Deterministic versus Probabilistic Tractography in Microsurgical Pontine

Spinothalamic Tractotomies

Douglas E. Anderson, M.D.

Resurgico Group / Senior Design Project

Nashville, TN

Co-Founder

Sept. 2011 – June 2013

Innovative Platform Design for Delivery of Biological Solutions to Peripheral Nerve Injuries: Lacertus

Delivery System

Wesley P. Thayer, M.D., Ph.D., Kenneth Debelak Ph.D.

Vanderbilt University, Department of Chemical & Biomolecular Engineering

Nashville, TN

Undergraduate Researcher

Feb. 2009 – June 2012

Metabolic Tumor Reprogramming with Glycolytic and Oxidative Inhibitors as Anticancer Therapy in B-cell Lymphoma Tumor Cells

Jamey D. Young, Ph.D.

PUBLICATIONS

PEER REVIEWED ORIGINAL SCIENCE PUBLICATIONS:

1. **Campos JK**, Wong YM, Hasty BN, McElligott KA, Mosier MJ. The Effect of Socioeconomic Status and Parental Demographics on Activation of Department of Child and Family Services in Pediatric Burn Injury. *J Burn Care Res.* 2016 Nov 11.
2. Lin LM, Bender MT, Colby GP, Beaty NB, Jiang B, **Campos JK**, Huang J, Tamargo RJ, Coon AL. Use of a next-generation multi-durometer long guide sheath for triaxial access in flow diversion: experience in 95 consecutive cases. *J Neurointerv Surg.* 2017 Jul 14. pii: neurintsurg-2017-013184. doi: 10.1136/neurintsurg-2017-013184.
3. Bender MT, Hurtado C, Jiang B, **Campos JK**, Huang J, Tamargo RJ, Lin LM, Coon AL, Colby GP. Safety Assessment of Endovascular Treatment of Cerebral Aneurysms in Patients with Fibromuscular Dysplasia. *Interventional Neurology* 2018;7:110-117. doi: 10.1159/000485133
4. Colby GP, Bender MT, Lin LM, Beaty NB, Caplan JM, Jiang B, Westbrook EM, Varjayand B, **Campos JK**, Huang J, Tamargo RJ, Coon AL. Declining complication rates with flow diversion of anterior circulation aneurysms after introduction of the Pipeline Flex: analysis of a single-institution series of 568 cases. *The Journal of Neurosurgery.* 2018 Jan 12:1-7. doi: 10.3171/2017.7.JNS171289.
5. Beaty NB, **Campos JK**, Lin LM, Colby GP, Bender MT, Xu R, Coon AL. Pipeline Flex Embolization of Flow-Related Aneurysms associated with Arteriovenous Malformations: A Case Report. *Intervent Neurol* 2018;7:164-170. doi: 10.1159/000484986
6. Lin LM, Jiang B, **Campos JK**, Beaty NB, Bender MT, Tamargo RJ, Huang J, Colby GP, Coon AL. Abciximab (ReoPro) dosing strategy for the management of acute intra-procedural thromboembolic complications during Pipeline flow diversion treatment of intracranial aneurysms. *Interventional Neurology.* 2017 [In Press]
7. Lin LM, Jiang B, Bender MT, Westbrook EM, **Campos JK**, Tamargo RJ, Huang J, Coon AL, Colby GP. 47 Consecutive Cases of Pipeline Flex Flow Diversion Utilizing a Novel Large-Bore Intracranial Intermediate Catheter: Nuances and Institutional Experience with the Syphontrak. *Interv Neurol.* 2017 [In Press]
8. Bender MT, Colby GP, Jiang B, Lin LM, **Campos JK**, Xu R, Westbrook EM, Vo CD, Zarrin DZ, Caplan JM, Huang J, Tamargo RJ, Coon AL. Flow Diversion of Posterior Circulation Cerebral Aneurysms: A Single-Institution Series of 59 Cases. *Neurosurgery.* 2018 [In Press]
9. Bender MT, Colby GP, Lin LM, Beaty NB, Caplan JM, Jiang B, **Campos JK**, Vo CD, Zarrin DA, Huang J, Tamargo RJ, Coon AL. Single-stage flow diversion with adjunctive coiling for cerebral aneurysm: outcomes and technical considerations in 72 cases. *J Neurointerv Surg.* 2018 [Submitted]
10. Bender MT, Vo CD, Jiang B, **Campos JK**, Zarrin DA, Caplan JM, Westbrook EM, Xu R, Huang J, Tamargo RJ, Lin LM, Colby GC, Coon AL. Pipeline embolization for salvage treatment of previously-stented residual and recurrent cerebral aneurysms. *Interventional Neurology.* 2018 [Submitted]

ABSTRACT/POSTER PRESENTATIONS

1. **Campos JK**, Murphy TA, Young JD. Pharmacological Inhibition of Tumor Metabolism as Anticancer Treatment. Presented poster at American Institute of Chemical Engineers Annual Conference; *Salt Lake City, UT*. Nov. 2010.
2. **Campos JK**, Murphy TA, Young JD. Pharmacological Inhibition of Tumor Metabolism as Anticancer Treatment. Presented poster of updates in original research at American Institute of Chemical Engineers Annual Conference; *Minneapolis, MN*. Oct. 2011.
3. **Campos JK**, Azer F, Getzin MW, Amsler MF, Savin JH, Sexton KW, Thayer WP. Innovative Platform Design for Delivery of Biological Solutions to Peripheral Nerve Injuries. Presented at Vanderbilt University School of Engineering Senior Design Poster Competition, Finalist; *Nashville, TN*. April 2012.
4. **Campos JK**, Anderson DE. Clinical Implementation of Diffusion Tensor Imaging to Integrate a Stereotactic Atlas of the Brainstem with Patient Specific White Matter Tractography. Poster presented at LUMC St. Albert's Day Research Symposium, *Maywood, IL*. Oct. 2013.
5. **Campos JK**, Wong YM, Hasty BN, McElligott KA, Mosier MJ. Epidemiologic Factors Implicating Department of Child and Family Services Investigations in Pediatric Burn Injuries. Poster presented at LUMC St. Albert's Day Research Symposium, *Maywood, IL*. Feb. 2016.
6. **Campos JK**, Beaty NB, Colby GP, Bender MT, Jiang B, Westbroek EM, Xu R, Lin LM, Huang J, Tamargo RJ, Coon AL. Technical Endovascular Considerations of Intracranial Aneurysm Treatment with Single-Stage Coil-Assisted Pipeline Embolization. *Young Investigator's Day, Postdoctoral Retreat Johns Hopkins University*. April 2017.
7. Bender MT, Colby GP, Lin LM, Beaty NB, Jiang B, **Campos JK**, Caplan JM, Huang J, Tamargo RJ, Coon AL. Outcomes of Posterior Circulation Pipeline in 52 Cases at a Single Institution. *Congress of Neurological Surgeons Annual Meeting*, Boston, MA. 7-11 October 2017.
8. Bender MT, Colby GP, Lin LM, Jiang B, Westbroek EM, Xu R, **Campos JK**, Huang J, Tamargo RJ, Coon AL. Aneurysm Occlusion after Anterior Circulation Pipeline: Follow-Up Angiography in 491 Patients at a Single Institution. *Congress of Neurological Surgeons Annual Meeting*, Boston, MA. 7-11 October 2017.
9. Beaty NB, **Campos JK**, Colby GP, Lin LM, Bender MT, Jiang B, Westbroek EM, Xu R, Huang J, Tamargo RJ, Coon AL. Technical Endovascular Considerations of Intracranial Aneurysm Treatment with Single-Stage Coil-Assisted Pipeline Embolization. *Congress of Neurological Surgeons Annual Meeting*, Boston, MA. 7-11 October 2017.
10. Jiang B, **Campos JK**, Beaty NB, Westbroek EM, Bender MT, Tamargo RJ, Huang J, Colby GP, Coon AL, Lin LM. Intraarterial and intravenous Abciximab for management of acute in-situ thrombosis during Pipeline flow diversion of intracranial aneurysms. *Congress of Neurological Surgeons Annual Meeting*, Boston, MA. 7-11 October 2017. (Oral Presentation)
11. Bender MT, Colby GP, Lin LM, Jiang B, **Campos JK**, Xu R, Westbroek EM, Zarrin DA, Caplan JM, Huang J, Tamargo RJ, Coon AL. Safety Assessment of Flow Diversion at the Basilar Apex. AANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting. *January 2018. Los Angeles, California, USA*.
12. Bender MT, Jiang B, **Campos JK**, Xu R, Westbroek EM, Vo CD, Caplan JM, Huang J, Tamargo RJ, Lin LM, Colby GP, Coon AL. Jailing the MCA to Treat Uncoilable and Surgically Inaccessible ICA Termination-region Aneurysms. AANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting. *January 2018. Los Angeles, California, USA*.
13. Jiang B, Bender MT, Westbroek EM, Xu R, **Campos JK**, Lin LM, Caplan JM, Vo CD, Tamargo RJ, Huang J, Coon AL. Pipeline Flow Diversion of High Cervical and Intracranial Dissecting Aneurysms and Pseudoaneurysm: A Single-Institution Series of 39 Consecutive Cases. AANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting. *January 2018. Los Angeles, California, USA*.

14. Jiang B, Bender MT, Westbrook EM, Xu R, **Campos JK**, Lin LM, Zarrin DA, Vo CD, Tamargo RJ, Huang J, Coon AL. Procedural complexity independent of P2Y12 levels is a predictor of in-stent thrombosis in Pipeline flow diversion of cerebral aneurysms. AANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting. *January 2018. Los Angeles, California, USA.*
15. Xu R, Bender MT, Jiang B, Westbrook EM, **Campos JK**, Caplan JM, Huang J, Tamargo RJ, Lin LM, Colby GP, Coon AL. Pipeline flow diversion of aneurysms near the ICA terminus: long-term outcomes of jailing the A1 segment. AANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting. *January 2018. Los Angeles, California, USA.*
16. **Campos JK**, Bender MT, Jiang B, Westbrook EM, Zarrin DA, Vo CD, Caplan JM, Huang J, Tamargo RJ, Lin LM, Colby GP, Coon AL. Characterization of Pipeline Flex Delivery Wire Recapture in 85 Consecutive Deployments. AANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting. *January 2018. Los Angeles, California, USA.*
17. Vo CD, Bender MT, Jiang B, **Campos JK**, Westbrook EM, Zarrin DA, Caplan JM, Huang J, Tamargo RJ, Lin LM, Colby GP, Coon AL. Pipeline embolization for salvage treatment of previously-stented residual and recurrent cerebral aneurysms. Characterization of Pipeline Flex Delivery Wire Recapture in 85 Consecutive Deployments. AANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting. *January 2018. Los Angeles, California, USA.*
18. Zarrin DA, **Campos JK**, Bender MT, Jiang B, Vo CD, Chandra A, Caplan JM, Huang J, Tamargo RJ, Lin LM, Colby GP, Coon AL. P2Y12 Precision in Therapeutic Monitoring of Dual Anti-Platelet Therapy for Flow Diversion of Cerebral Aneurysms. AANS/CNS Joint Cerebrovascular Section 2018 Annual Meeting. *January 2018. Los Angeles, California, USA.*

SELECTED ORAL PRESENTATIONS

1. **Campos JK**, Debelak K. Peripheral Nerve Repair: Integrating Flow Model Analysis to Optimize Drug Delivery Design Parameters. Presented to Vanderbilt University Department of Chemical & Biomolecular Engineering for the Industrial Advisory Board; *Nashville, TN.* April 2012.
2. **Campos JK***, Azer F*, Getzin MW*, Amsler MF*, Savin JH*, Sexton KW, Thayer WP. Innovative Platform Design for Delivery of Biological Solutions to Peripheral Nerve Injuries. Presented at Phase 1 VentureLab Project Acceleration Workshop, National Collegiate Inventors & Innovators Alliance Headquarters; *Hadley, MA.* April 2012.
3. **Campos JK***, Azer F*, Getzin MW*, Amsler MF*, Savin JH*, Sexton KW, Thayer WP. Innovative Platform Design for Delivery of Biological Solutions to Peripheral Nerve Injuries. Presented at Collegiate Inventors Competition; *Washington, D.C.* Nov. 2012.
4. **Campos JK**. Diffusion Tensor Imaging: Localization for a Descending Trigeminal Tractotomy. Presented at Department of Neurosurgery Grand Rounds, LUMC; *Maywood, IL.* July 2013.
5. **Campos JK**. Evidence-Based Guidelines to Neurosurgical Management of Pediatric Hydrocephalus. Presented to Department of Neurosurgery Grand Rounds, LUMC; *Maywood, IL.* April 2015.
6. **Campos JK**. Bullying and Suicide Risk. Presented to Department of Psychiatry Clerkship Grand Rounds, LUMC; *Maywood, IL.* December 2015.
7. **Campos JK**. Diffusion Tensor Imaging: Deterministic versus Probabilistic Tractography in Microsurgical Pontine Spinothalamic Tractotomies. Presented to Department of Neurosurgery Grand Rounds, University of California San Diego; *San Diego, CA.* October 2016.
8. **Campos JK**. Diffusion Tensor Imaging: Tractography in Microsurgical Pontine Spinothalamic Tractotomies. Presented to Department of Neurosurgery Grand Rounds, Johns Hopkins University School of Medicine; *Baltimore, MD.* December 2016.

PROFESSIONAL SOCIETY MEMBERSHIPS

- Congress of Neurological Surgeons (CNS), **Medical Student Member**
- Society of NeuroInterventional Surgery, **Fellow Member**
- American Association of Neurological Surgeons (AANS)/CNS Joint Cerebrovascular Section, **Medical Student Member**
- AANS/CNS Joint Section on Women in Neurosurgery, **Medical Student Member**
- American Medical Association (AMA), **Member**

HONORS AND AWARDS

WHILE ATTENDING LOYOLA UNIVERSITY CHICAGO, SCHOOL OF MEDICINE

- Honors in Research, M.D. Program 2016
- Stritch School of Medicine Endowed Scholarship 2016
- Stritch School of Medicine Merit-Based Institutional Scholarship 2014
- Student Training in Approaches to Research Fellowship 2013
- Stritch School of Medicine Merit-Based Scholarship: Carroll Scholarship 2013
- Collegiate Inventors Competition, Finalist - \$4,000 cash prize 2012

WHILE ATTENDING VANDERBILT UNIVERSITY

- Senior Engineering Design Competition Finalist for Lacertus Drug-Delivery System 2012
- National Collegiate Inventors & Innovators Alliance: Phase I VentureLab \$5,000 Funding Grant 2012
- 1st Place Student Poster: Biotechnology, AIChE Annual Conference 2011
- E.I. du Pont de Nemours & Company Engineering Scholarship for academic performance 2011
- Procter & Gamble Undergraduate Senior Merit-Based Scholarship 2011
- 2nd Place Student Poster: Biotechnology, AIChE Annual Conference 2010

LEADERSHIP AND WORK EXPERIENCE

Parish Life Commission Member

May 2014 – July 2016

Volunteer, Holy Name Cathedral

Chicago, IL

- Appointed to three-year term to serve on council responsible for Parish Leadership
- Plan/coordinate community-building, philanthropic, and social events for parishioners and visitors

Resurgico Group

Sept. 2011 – Nov. 2014

Co-Founder, Chief Biomolecular Design Engineer

Nashville, TN

- Co-founded 5-person engineering design group to facilitate nerve regeneration following peripheral nerve reconstruction. Our team developed the Lacertus Delivery System, a subcutaneous catheter device which delivers the study drug over the nerve injury site via low-pressure valves carved within the catheter wall for an even distribution. In vivo testing courtesy of Vanderbilt University's General Surgery Department.
- Remained actively involved in device optimization (e.g. creating pressure-response outlet dimensions, hydrophobic polymer coating) until 2014
- Current manufacturing plans are pending results of drug efficacy and completion of graduate school among all Resurgico members.

Gift Shop Retail Associate

July 2011 – July 2012

Monroe Carell Jr. Children's Hospital at Vanderbilt

Nashville, TN

- Earnings financed my medical school test preparation and subsequent applications

TEACHING AND COMMUNITY OUTREACH

Hospital Volunteer

Oct. 2008 – June 2012

Monroe Carell Jr. Children's Hospital, Vanderbilt University

Nashville, TN

- Family Resource Center (FRC): Researched and appropriate medical information packets for patients' families
- Formatted and reviewed Spanish translation of the FRC's Cancer Notebook and other materials
- Organized database intake for patient information - covering disease processes and treatment options

Vanderbilt Student Volunteers for Science Teacher

Sept. 2008 – June 2012

Monroe Carell Jr. Children's Hospital, Vanderbilt University

Nashville, TN

- Taught interactive experiments to demonstrate fundamentals of science to middle school students and hospitalized pediatric patients
- Developed and implemented new science lessons and curricula for program participants (2011-2012)

Community Outreach Coordinator

April 2011 – July 2012

Adventure Science Center

Nashville, TN

- Designed and drafted metabolism and energy conservation lessons for middle schoolers with Jamey D. Young Ph.D. to accomplish the community outreach goals of his Vanderbilt University Discovery Grant

Diabetes Education Clinic Volunteer

April 2009 – June 2010

Shade Tree Clinic

Nashville, TN

- Taught weekly Spanish-speakers diabetes lecture alongside Vanderbilt University medical students

PERSONAL INTERESTS

- Philanthropy event planning (Holy Name Cathedral, Chicago)
- Volleyball (Chicago competitive beach volleyball league, indoor winter league)
- Conversational Proficiency in Spanish (working towards Medical Interpreter Certification)