

Patrick Journey, Ph.D., FAHA

Contact

Biomedical Engineering Department
San José State University
One Washington Square
San Jose, CA 95192-0085

Office Phone: (408) 924-3921

Website: jurneylab.org

[Google Scholar](#) (h-index: 9)

LinkedIn: [linkedin.com/in/patrick-journey/](https://www.linkedin.com/in/patrick-journey/)

Email: patrick.journey@sjsu.edu

Education/Training

<i>Years</i>	<i>Degree / Certificate</i>	<i>Institution</i>
August 2016- August 2019	Postdoctoral Fellow	Oregon Health & Science University
August 2011- August 2015	PhD. Mechanical Engineering	The University of Texas at Austin
August 2009 - August 2011	Master of Science in Engineering	The University of Texas at Austin
August 2005- May 2009	Bachelor of Science in Mechanical Engineering	The University of Portland

Position Title

<i>Years</i>	<i>Position</i>	<i>Institution</i>
May 2025- Present	Visiting Scholar in Chemical and Systems Biology	Stanford University
January 2025- Present	Kordestani Endowed Chair	San José State University
August 2025- Present	Associate Professor of Biomedical Engineering	San José State University
August 2019- August 2025	Assistant Professor of Biomedical Engineering	San José State University

Professional Summary

Dr. Patrick Journey is a biomedical engineering teacher-scholar whose work integrates mechanobiology, microfluidics, and cardiovascular biomaterials to advance foundational understanding and therapeutic innovation in vascular disease.

He currently serves as the Kordestani Endowed Chair and Associate Professor (effective August 2025) in the Department of Biomedical Engineering at San José State University, and as a Visiting Scholar in the Department of Chemical and Systems Biology at Stanford University. His research, supported by the NIH, AHA, and CSUBIOTECH, focuses on the interplay between fluid shear stress, endothelial cell function, and mitochondrial dynamics in cardiovascular pathophysiology.

A committed educator and mentor, Dr. Journey has supervised more than 70 undergraduate and graduate researchers, many of whom have earned national fellowships, received presentation awards, and gone on to top graduate programs or positions at leading biotechnology firms. He has led the development of innovative curricula—including advanced laboratory modules and project-based microfluidics courses—designed to prepare students for careers in biotechnology and translational research. He also directs the SJSU–UCSF Clinical Immersion Program and founded the Pathways in Biomedical Engineering Seminar Series, two initiatives that support professional identity formation and career readiness, particularly for students from underrepresented backgrounds.

Dr. Journey is a Fellow of the American Heart Association and has been recognized with the College of Engineering Faculty Award for Excellence in Scholarship and the Quantum Corporation Faculty Teaching Fellowship. His service spans institutional, statewide, and national levels, including appointments as a CSU STEM-NET Faculty Advisor and reviewer for the NIH, NSF, AHA, and CSUBIOTECH. Through his research, teaching, mentorship, and service, he remains deeply committed to advancing human knowledge, training the next generation of scientists and engineers, and broadening participation in biomedical innovation.

Research Experience

The Role of Mechanotransduction of Fluid Shear Stress in Mitochondrial Function and Architecture

Chemical And Systems Biology, Stanford University.

Role: **Principal Investigator - Visiting Scholar**

May 2025 – Present

Biological Transport Phenomena, Mechanotransduction, Biomicrofluidics, Endothelialization, Cardiovascular Biomaterials, and Mitochondria

Biomedical Engineering Department, Charles W. Davidson College of Engineering, San José State University.

Role: **Principal Investigator**

August 2019 – Present

Cardiovascular Devices and Endothelial Cell Regulation for Treatment of Cardiovascular Disease

Department of Biomedical Engineering, Oregon Health & Science University.

Supervisor: **Dr. Monica Hinds**

August 2016 – July 2019

Novel Nanoparticles and Bio-Microfluidic Assays for Improved Drug Delivery Efficacy

Department of Mechanical Engineering, University of Texas at Austin.

Supervisor: **Dr. Li Shi**

August 2009 – August 2015

Total Artificial Heart Characterization and Development

Knight Cardiovascular Institute, Oregon Health & Science University.

Collaborator: **Dr. George Giraud**

November 2017 – June 2020

Vascularization of 3D Tissue Constructs

Department of Biomedical Engineering, Oregon Health & Science University.

Collaborator: **Dr. Luiz Bertassoni**

September 2018 – January 2020

Microfluidics applications for single-molecule DNA tethering and unzipping using optical tweezers

Department of Physics, The University of New Mexico.

Supervisor: **Dr. Steven Koch**

June 2008 – August 2008

Teaching Experience

San José State University – Department of Biomedical Engineering

1. BME 207 - Microscale Biomedical Systems: Physics and Applications

Graduate elective

- Introduced microscale fluid, electrical, and particle/molecule/device interactions for biomedical systems
- Taught COMSOL-based CFD modeling; applied Navier-Stokes and Maxwell's equations
- Used case studies to explore real-world diagnostic and analytical microsystems

2. BME 188 - Biomedical Device Manufacturing Fall 2024

Senior/graduate elective

- Covered design and manufacturing processes for biomedical devices, implants, and capital equipment
- Emphasized design for manufacturability and scalability in regulated industries emphasizing the FDA Waterfall design process

3. BME 196R – Biological Microfluidics – Spring 2024

Upper-division elective (developed course)

- Taught Navier–Stokes modeling, soft lithography, and mammalian cell culture integration
- Guided student-led simulation+experiment projects using COMSOL Multiphysics

4. BME 207 – Experimental Methods in Biomedical Engineering – Fall 2022

Graduate core

- Covered experimental design, advanced statistics, and data analysis techniques
- Emphasized reproducibility and quantitative rigor in biomedical research

5. BME 115 – Foundations of Biomedical Engineering – Fall 2019, Spring 2020, Fall 2020, Spring 2021, Spring 2022, Spring 2025

Upper-division/graduate core

- Applied conservation laws (mass, energy, charge, momentum) to biomedical systems
- Introduced students to molecular biology, diagnostics, FDA regulation, and bioethics

6. BME 117 – Biotransport Phenomena – Fall 2020, Fall 2022

Upper-division/graduate core

- Taught molecular-to-organ-scale mass and momentum transport in physiological systems

7. BME 115L – Foundations of Biomedical Engineering Laboratory – Fall 2019, Spring 2020, Fall 2020, Spring 2021, Spring 2022, Spring 2025

Laboratory component

- Designed and led lab curriculum; supervised adjunct instructors
- Developed in-person lab modules (Fall 2019), transitioned labs to online platforms during COVID-19 (Summer 2020), then Hybrid labs (Spring 2021), and new in-person labs (Spring 2022)

Oregon Health & Science University / University of Portland

8. EGR 491/591-Biomicrofluidics – Spring 2018

Senior/graduate elective (developed course)

- Combined microscale transport principles with current bioengineering research

9. EGR 110-Introduction to Engineering – Fall 2017

First-year core, University of Portland

- Led interdisciplinary design challenge focused on circuits, structures, and software
- Instructed and mentored 29 first-year engineering students across four disciplines

Advising Experience (See also: <https://www.jurneylab.org/>)

1. Research advisor for eleven undergraduate and eight graduate students. – AY 24-25
 - a. Mentee Competitive Research Awards:
 - i. Bertha Kalm Scholarship
 - ii. Future of Silicon Valley Scholarship
 - iii. Dr. Richard J. Schlesinger Grant ASQ Device Division
 - iv. Walter C. Benzing Fellowship
 - v. McNair Scholarship
 - vi. Research & Innovation Student RSCA Fellowship
 - vii. College of Engineering Student Travel Grant
2. Research advisor for twelve undergraduate and seven graduate students. – AY 23-24
 - a. Mentee Competitive Research Awards:
 - i. Walter C. Benzing Fellowship
 - ii. McNair Scholarship
 - iii. Research & Innovation Student RSCA Fellowship
 - iv. Undergraduate Research Opportunity Program Award
 - v. College of Engineering Student Travel Grant
3. Research advisor for eleven undergraduate and eight graduate students. – AY 22-23
 - a. Mentee Competitive Research Awards:
 - i. CSUPERB Faculty-Graduate Student Research Collaboration Award
 - ii. Walter C. Benzing Fellowship
 - iii. Charles W. Davidson Student Scholarship
 - iv. College of Engineering Student Travel Grant
 - v. BME Outstanding Teaching Assistant Award
 - vi. BME Undergraduate Research Award
 - vii. BME Outstanding Graduate Student Award
4. Research advisor for eight undergraduate and three graduate students. – AY 21-22
 - a. Mentee Competitive Research Awards:
 - i. McNair Scholar – Fall 2021
 - ii. Summer Equity Intern (OHSU) – Summer 2021
 - b. BME Departmental Awards
 - i. BME Outstanding Teaching Assistant award
 - ii. BME Undergraduate Research Award
 - iii. BME Promise Award
5. Research advisor for fifteen undergraduate and two graduate students. – AY 20-21
 - a. Mentee Competitive Research Awards:
 - i. McNair Scholar – Fall 2020
 - ii. Professional Development Grant – Fall 2020
6. Research advisor for eleven undergraduate and one graduate student. – AY 19-20
 - a. Mentee Competitive Research Awards:
 - i. Undergraduate Research Grant (2X) – Fall 2019
 - ii. Davidson Research Scholar (2X) – Fall 2019
 - iii. Professional Development Grant – Fall 2019
7. Undergraduate Student Mentor, American Heart Association Undergraduate Fellow, Oregon Health & Science University, Summer 2018, 2019
8. Undergraduate Student Mentor, MJ Murdock Charitable Trust, Oregon Health & Science University, Summer 2017
9. Undergraduate Student Mentor, BUILD EXITO, Oregon Health & Science University, 2017
10. Biotech Advisor (BME 550-Biomedical Engineering & Society Capstone), University of Portland, Spring 2017

Professional Service

- **Director, SJSU-UCSF Clinical Immersion Program | (2024-Present)**
 - Leads a highly selective collaborative program providing SJSU students with direct clinical exposure at UCSF, fostering inter-institutional partnerships and enriching student learning experiences.
- **California State University Chancellor's Office University Faculty Advisor for STEM-NET | (2024-Present)**
 - Advises the CSU system on strategic STEM initiatives, contributing to system-wide educational, research, and workforce development strategies.
- **Founder and Director, Pathways in Biomedical Engineering Seminar Series | San José State University | (2020-Present)**
 - Established and lead a high-impact seminar series, bringing three speakers per semester from biomedical/biotech industry and academia to expose students to diverse professional roles.
 - Designed the program to address the documented challenge of underrepresented students self-limiting career aspirations, drawing upon academic research on student professional identity.
 - Consistently recognized in alumni and senior exit surveys for its positive impact on student experience, professional development, and enhancing career prospects post-graduation.
- **Committee on Research, Scholarship, and Creative Activity (RSCA) | (2022-Present)**
 - Contributes to the development and oversight of college-wide policies related to research, scholarship, and creative activities, promoting faculty success and institutional impact.
- **Strategic Planning Task Force | Charles W. Davidson College of Engineering | (2022-2023)**
 - Collaborated with consultants and college leadership to develop and refine the strategic plan and mission statement for the College of Engineering, shaping its future direction.
- **Undergraduate Curriculum Committee | Charles W. Davidson College of Engineering | (2020-2022)**
 - Reviewed and approved new courses, and contributed to shaping course offerings to align with evolving industry needs and the mission of the department, college, and university.
- **Biomedical Engineering Designated Faculty Advisor | San José State University | (2021-2022, 2024-2025)**
 - Served as the designated faculty advisor for Junior and Senior Biomedical Engineering Majors meeting individually with more than 100 students to develop their course schedules and ensure timely graduation as well as discussing plans for success after graduation.
- **Faculty Hiring Committee Member | Biomedical Engineering Department, San José State University | (2020)**
 - Participated in the full search process, including reviewing applications, conducting interviews, and contributing to strategic hiring decisions for new faculty within the Biomedical Engineering Department.
- **Faculty Hiring Committee Member | Biomedical Engineering Department, San José State University | (2020)**
 - Participated in the full search process, including reviewing applications, conducting interviews, and contributing to strategic hiring decisions for new faculty within the Biomedical Engineering Department.
- **Reviewer for Grant Panels:**
 - National Institutes of Health (NIH) Reviewer (2025)
 - American Heart Association (AHA) Fellowship Review Committee (2021, 2022, 2023, 2024)
 - National Science Foundation (NSF) Reviewer (2022, 2023, 2024)
 - California State University Program for Education & Research in Biotechnology (CSUBIOTECH) (2022, 2023)
- **Reviewer for Academic Journals:**
 - Journal of Controlled Release
 - Acta Biomaterialia
 - ACS Biomaterials Science & Engineering
 - Frontiers in Bioengineering
 - The FEBS Journal
 - The International Journal of Artificial Organs

- Beilstein Journal of Nanotechnology
- And more...
- **Reviewer for Conference Abstracts:**
 - Biomedical Engineering Society (BMES) Annual Meetings (2017-2023)
 - Summer Biomechanics, Bioengineering, and Biotransport Conference (2020-2022)

Community Service

- Lead mechanical engineer and Spanish translator for Engineers Without Borders, University of Portland chapter.
 - Agua Negra, Guatemala (2009)
 - Guadalupe Carney, Honduras (2009)
- Graduates Linked with Undergraduates in Engineering (GLUE) | University of Texas at Austin | (2013-2015)
- Colombian Food Bank Foundation | Vice President of International Relations (2015-2019)
- Fundación Barquitos de Papel, Ambassador | Tolú, Colombia (2015)

Professional Societies

- Biomedical Engineering Society (2010-Present)
- American Heart Association (2017-Present)
- North American Vascular Biology Organization (2024-Present)

Funding and Major Awards

1. National Institutes of Health (NIGMS) SCORE Program SC2GM140991, *Reactive Ion Plasma Treatment of Cardiovascular Biomaterials to Understand the Effect of Nanotopography on Endothelialization*
Role: PI
Period: 09/01/2021 – 07/31/2025
2. American Heart Association Merit Award 24MERIT1186873, *Nicotine induced gene-environment interactions in AAA disease*
Role: Co-PI
Period: 01/01/2024 – 12/31/2028
3. CSUBIOTECH Research Development Grant, *Exploring Mitochondrial Transplantation to Restore Endothelial Cell Function in Cardiovascular Disease*
Role: PI
Period: 01/01/2025 – 06/30/2026
4. California State University Program for Education & Research in Biotechnology (CSUPERB) Early Investigator Award, *Identifying the Molecular Mechanisms of Endothelialization of Next-Generation Vascular Grafts*
Role: PI
Period: 05/03/2021 – 11/30/2022
5. W.M. Keck Foundation, *Integrating Paper microfluidics in the Undergraduate Curriculum*
Role: Co-PI (sub-award)
Period: 01/04/2021 – 09/01/2022
6. California State University Program for Education & Research in Biotechnology (CSUPERB) Faculty-Graduate Student Research Collaboration Program, *Establishing a Platform to Elucidate the Adhesome of Endothelial Cell Attachment, Proliferation, and Migration*
Role: PI
Period: 06/30/2022 – 05/31/2023

Awards and Honors

- Kordestani Endowed Chair (2025-Present)
- Fellow of The American Heart Association (2024-Present)

- College of Engineering Faculty Award for Excellence in Scholarship (2024)
- Quantum Corporation Faculty Teaching Fellow Award (2023)
- ASEE DELTA Junior Faculty Institute (2023)
- Clinical Assistant Professor, Oregon Health & Science University (2019-2021)
- Adjunct Faculty Member, The University of Portland (2017-2018)
- NIH T-32 Postdoctoral Fellow (2016-2018)
- Chapter President - American Society for Engineering Education (2014-2015)
- Chapter Treasurer - American Society for Engineering Education (2013-2014)
- David Bruton, Jr. Graduate School Fellowship (2013-2014)
- NSF Graduate Research Fellowship Honorable Mention (2010)
- Graduate Presidential Scholar (2010)
- The Outstanding Mechanical Engineering Student (Donald P. Shiley School of Engineering, 2009)
- Karel and Marta Tietze Endowed Scholar (2005-2009)
- University of Portland Men's Soccer Cumulative GPA Award (2006-2008)
- University of Portland Men's Soccer Team Captain (2007-2008 and 2008-2009)
- NCAA Academic All American | All-West Region (2007 and 2008)
- University of Portland Dean's List (2006-2009)
- West Coast Conference Commissioner's Honor Roll (2006-2009)
- Presidential Scholarship (2005-2009)
- AP Scholar with Distinction (2005)
- New Mexico 4A High School State Player of the Year (2005)

Languages

- English (Native Speaker)
- Spanish (Fluent)

Publications and Patents

1. Leineweber, W., Acevedo Munares, G., Leycam, C., Michael, R., Noyer, J., **Jurney P.**, Holotomographic Microscopy Reveals Label-Free Quantitative Dynamics of Endothelial Cells During Endothelialization. *European Journal of Cell Biology* 104, 151492 <https://doi.org/10.1101/2024.11.04.621934> (2025)
2. Michael, R., Modirzadeh, T., Issa, T.B., **Jurney, P.**, Label-Free Visualization and Segmentation of Endothelial Cell Mitochondria Using Holotomographic Microscopy and U-Net. *Chemical & Biomedical Imaging*. <https://doi.org/10.1021/cbmi.4c00100> (2025)
3. Faase, R., Bates, N, Plaut, J., Leycam, C., Acevedo Munares, G., Hinds, M., Baio, J., **Jurney, P.**, Temporal Changes in the Surface Chemistry and Topography of Reactive Ion Plasma-Treated Polyvinyl Alcohol Alter Endothelialization Potential. *ACS Applied Materials & Interfaces*. <https://doi.org/10.1021/acsami.3c16759> (2024)
4. **Jurney, P.***, Parthiban, S. P.*, Athirasala, A., Franca, C, Tahayeri, A., Menezes, P., Bertassoni, L., '3D Bioprinting of Blood Vessels and Vascular Networks: Progress and Challenges Toward Biofabrication of Functional Vascularized Tissues and Organs', *Emerging Technologies for Biofabrication and Biomanufacturing*. World Scientific Publishing. doi: 10.1142/9789811226090_0008 (2023)
5. Lakshmanan, HHS., Estonilo, A., Reitsma, S., Melrose, A., Subramanian J., Zheng, T., Maddala, J., Tucker, E., Gailani, D., McCarty, O., Puy, C., **Jurney, P.** Revised model of the tissue factor pathway of thrombin generation: role of the feedback activation of FXI. *Journal of Thrombosis and Haemostasis*. <https://doi.org/10.1111/jth.15716> (2022)
6. **Jurney, P.**, Glynn, J., Dykan, I., Hagen, M., Kaul, S., Wampler, R., Hinds, M., Giraud, G., Characterization of a Second Generation Pulsatile Rotary Total Artificial Heart *Artificial Organs* 2020.doi:10.1111/aor.13810 (2021)

7. Lakshmanan, H. H. S., Pore, A., Kohs, T., Yazar, F., Thompson, R., **Journey, P.**, Maddala, J., Olson, S., Shatzel, J., Vanapalli, S., and McCarty, O. Design of a Microfluidic Bleeding Chip to Evaluate Antithrombotic Agents for Use in COVID-19 Patients. *Cell. Mol. Bioeng.* 1–9, (2020)
8. Bates, N., Puy, C., **Journey, P.**, McCarty, O. J. T., Hinds M. T., Evaluation of the Effect of Crosslinking Method of Poly(Vinyl Alcohol) Hydrogels on Thrombogenicity. *Cardiovasc. Eng. Technol.* 11:448–455, (2020)
9. **Journey, P.**, Anderson, D., Pohan, G., Yim, E., Hinds, M., Reactive ion plasma modification of poly(vinyl-alcohol) increases primary endothelial cell affinity and reduces thrombogenicity *Macromolecular Bioscience* 18(9) (2018)
10. **Journey, P.**, Agarwal, R., Singh, V., Roy, K., Sreenivasan, S.V., Shi, L., Unique Size and Shape-Dependent Uptake Behaviors of Non-Spherical Nanoparticles by Endothelial Cells due to a Shearing Flow *Journal of Controlled Release* 245, 170–176 (2017).
11. **Journey, P.**, Agarwal, R., Roy, K., Sreenivasan, S.V., Shi, L., Size-Dependent Nanoparticle Uptake by Endothelial Cells in a Capillary Flow System *Journal of Nanotechnology in Engineering and Medicine* 6(1) 011007 (2015)
12. Agarwal, R., **Journey, P.**, Raythatha, M., Singh, V., Sreenivasan, S.V., Shi, L., Roy, K., Effect of Shape, Size and Aspect Ratio on Nanoparticle Penetration and Distribution Inside Solid Tissues using 3D Spheroid Models. *Advanced Healthcare Materials* 4(15) 2269-2280 (2015)
13. Singh, V., Agarwal, R., Marshall K., **Journey, P.**, Roy K., Shi, L., Sreenivasan, S.V., Scalable Fabrication of Low Elastic Modulus Polymeric Nanocarriers with Controlled Shapes for Diagnostics and Drug Delivery. *Journal of Micro and Nano-Manufacturing* 3(1) 011002 (2015)
14. **Journey, P.**, Agarwal, R., Singh, V., Roy, K., Sreenivasan, S.V., Shi, L., Size-Dependent Nanoparticle Margination and Adhesion Propensity in a Microchannel. *Journal of Nanotechnology in Engineering and Medicine* 4(3) 031002 (2013)
15. Agarwal, R., Singh, V., **Journey, P.**, Shi, L., Sreenivasan, S.V., Roy, K., Mammalian Cells Prefer Nanodiscs over Nanorods and Use Shape-specific Uptake Mechanisms. *Proceedings of the National Academy of Sciences* 110 17247-17252 (2013)
16. Agarwal, R., Singh, V., **Journey, P.**, Shi, L., Sreenivasan, S.V., Roy, K., Scalable Imprinting of Shape-Specific Polymeric Nanocarriers Using a Release Layer of Switchable Water Solubility. *ACS Nano* 6 2524-2531 (2012)

Conference Presentations

1. Noyer, J., Leineweber, W., **Journey, P.** Holotomographic Microscopy Imaging to Quantify the Role of Mechanotransduction of Fluidic Shear Stresses in Mitochondrial Network Structure and Function. Vascular Biology.: October 2024; Monterey, CA. **Podium/Poster**
2. Noyer, J., **Journey, P.** Holotomographic Microscopy Imaging to Quantify the Role of Mechanotransduction of Fluidic Shear Stresses in Mitochondrial Network Structure and Function. Biomedical Engineering Society Annual Meeting.: October 2024; Baltimore, MA. **Podium**
3. Catano, C., Rhee, Y.H., Tsao, P., **Journey, P.** Disrupting Aortic Smooth Muscle Cell and Inflammatory Macrophage Signaling Using PCSK9 Inhibition. Biomedical Engineering Society Annual Meeting.: October 2024; Baltimore, MA Poster
4. Raul, M., Modirzadeh T., Bachar, I., **Journey, P.** A Machine Learning Model for Identifying Mitochondria Fusion and Fission Points. Biomedical Engineering Society Annual Meeting.: October 2024; Baltimore, MA Poster
5. Noyer, J., **Journey, P.** Characterizing the Role of Fluidic Shear Stress Mechanotransduction by Endothelial Cells in Mitochondrial Network Dynamics. Stanford-Arizona-Morehouse-UAB Cardiovascular Research Symposium: August, 2024; Palo Alto, CA Poster (**Best Poster Award**)
6. Raul, M., Modirzadeh T., Bachar, I., **Journey, P.** A Machine Learning Model for Identifying Mitochondria Fusion and Fission Points. *Vasculata.*: July 2024; Palo Alto, CA. Poster
7. Noyer, J., **Journey, P.** Characterizing the Role of Fluidic Shear Stress Mechanotransduction by Endothelial Cells in Mitochondrial Network Structure and Function, using Holotomographic Microscopy. *Vasculata.*: July 2024; Palo Alto, CA. **Podium (invited)**
8. Catano, C., Rhee, Y.H., **Journey, P.**, Disrupting Aortic Smooth Muscle Cell and Inflammatory Macrophage Signaling Using PCSK9 Inhibition. *Vasculata.*: July 2024; Palo Alto, CA. Poster
9. Noyer, J., **Journey, P.** Holotomography, a Platform to Investigate the Role of the Adhesome in Endothelial Cell Metabolism CSU Biotechnology Symposium.: January 2024; Santa Clara, CA. Poster

10. Babiker, A., Capuyon, O., **Journey, P.** A Proposed Workflow to Standardize the Measurement of Endothelialization of Vascular Biomaterials. Biomedical Engineering Society Annual Meeting.: October 2023; Seattle, WA. Poster
11. Noyer, J., **Journey, P.** Holotomographic Microscopy - a Platform to Investigate the Role of the Adhesome in Endothelial Cell Metabolism. Biomedical Engineering Society Annual Meeting.: October 2023; Seattle, WA. Poster
12. Leycam, C., Acevedo-Munares, G., **Journey, P.** 3D Holotomographic Imaging of Live Cells to Characterize Endothelialization. Biomedical Engineering Society Annual Meeting.: October 2022; San Antonio, TX. Poster
13. Lakshmanan, HHS., Estonilo, A., Reitsma, S., Melrose, A., Zheng, T., Maddala, J., Gailani, D., **Journey, P.**, Puy, C., McCarty, O. An Integrative Biology Approach to Model the Role of the Feedback Activation of FXI by Thrombin in the Tissue Factor Pathway. International Society of Thrombosis and Haemostasis International Congress July 2022. **Podium**
14. Lakshmanan, HHS., Reitsma, S., Zheng, T., Subramanian, J., Melrose, A., Estonilo, A., Maddala, J., Gailani, D., **Journey, P.**, Puy, C., McCarty, O. Systems Biology of the Tissue Factor Pathway of Thrombin Generation: Role of the Feedback Activation of FXI. 19th U.S. National Congress on Theoretical and Applied Mechanics. June 2022.
15. Faase, R., Bates, N., Plaut, J., Guerra, A., Hinds, M., Baio, J., **Journey, P.** A Platform For Studying The Effects of Nanotopography and Reactive Chemical Species On Integrin Selection. SB³C. June 2021. **Podium**
16. Lakshmanan, HHS., Pore, A., Shatzel, JJ., Puy, C., **Journey, P.**, Maddala, J., Vanapalli, SA., McCarty OJT. Development of a Microfluidic Pillar Device to Study Hemostasis in vitro. Res Pract Thromb Haemost. 2020; 4 (Suppl 1).
17. Lakshmanan, H., Estonilo, A., Maddala, J., Puy, C., McCarty, O., **Journey, P.** “Predicting and Validating the Role of Coagulation Factor XI in Hemostasis and Thrombin Generation” Oregon Bioengineering Symposium. November 2020; Virtual. Poster
18. Yazar, F., **Journey, P.** “Microfluidic Hemostasis Assay to Study the Mechanisms of Coagulation” Biomedical Engineering Society Annual Meeting.: October 2020; Virtual. Poster
19. **Journey, P.**, “Reactive Ion Plasma Treatment of Poly(Vinyl-Alcohol) (PVA) to Study the Mechanisms of Endothelial Cell Attachment, Migration, Proliferation, and Thrombogenicity” 9th International Bio-Fluid Mechanics And Vascular Mechano-Biology Symposium: February 2020; Tucson, Arizona. **Podium**
20. **Journey, P.**, Yim, E., Hinds, M., “Reactive Ion Plasma Treatment of Poly(Vinyl-Alcohol) (PVA) to Study the Mechanisms of Cell Attachment, Migration, and Proliferation” Biomedical Engineering Society Annual Meeting.: October 2019; Philadelphia, Pennsylvania. Poster
21. **Journey, P.**, Glynn, J., Dykan, I., Hagen, M., Kaul, S., Wampler, R., Hinds, M., Giraud, G., “Characterization of a Pulsatile Rotary Total Artificial Heart” Biomedical Engineering Society Annual Meeting.: October 2019; Philadelphia, Pennsylvania. Poster
22. **Journey, P.**, Anderson, E.J., Pohan, G., Yim, E., Hinds, M., “Has Your Biocompatible Surface Changed? Reactive Ion Plasma Introduces Unstable Functional Groups onto the Surface of Poly(vinyl alcohol)” Biomedical Engineering Society Annual Meeting.: October 2018; Atlanta, Georgia. Poster
23. **Journey, P.**, Anderson, E.J., Pohan, G., Yim, E., Hinds, M., “Reactive Ion Surface Modification of Poly(vinyl alcohol) Affects Endothelial Colony Forming Cell Affinity and Thrombogenicity” International Vascular Biology Meeting.: June 2018; Helsinki, Finland. Poster
24. **Journey P.**, Anderson D., Pohan G., Yim E., Hinds M., “Reactive Ion Plasma Modification of Poly(vinyl alcohol)” Canadian Biomaterials Society Annual Meeting.: May 2018, Victoria, Canada. Poster
25. **Journey P.**, Anderson D., Hagen M., Yim E., Hinds M., “Reactive Ion Surface Modification of Poly(vinyl alcohol) to Enhance Endothelialization and Preserve non-Thrombogenicity” International Society of Thrombosis and Haemostasis International Congress.: July 2017; Berlin, Germany. Poster
26. **Journey, P.**, Anderson, E.J., Hagen, M., Yim, E., Hinds, M., Reactive Ion Surface Modification of Vascular Graft Materials Enhances Endothelialization. North American Vascular Biology Organization.: October 2017; Pacific Grove, CA. Poster
27. **Journey, P.**, Reactive Ion Surface Modification of Vascular Graft Materials to Enhance Endothelialization and Prevent Neointimal Hyperplasia OHSU Knight Cardiovascular Institute Scientific Retreat.: April 2017; Portland, OR. Podium

28. **Jurney P.**, Agarwal R., Singh V., Roy K., Sreenivasan S.V., Shi L., “The Effect of Nanoparticle Size on Margination and Adhesion Propensity in Artificial Micro-Capillaries” ASME Micro/Nanoscale Heat and Mass Transfer International Conference 2012, Atlanta, GA. Podium.
29. **Jurney P.**, Caldorera-Moore M., Singh V., Agarwal R., Marshal S., Sreenivasan S.V., Roy K., LaBrake D., Shi L., "High Throughput Nanoimprint Manufacturing of Shape-Specific, Stimuli-Responsive Polymeric Nanocarriers for Drug and Imaging Agent Delivery" NSF CMMI Research and Innovation Conference 4-7 January, 2011, Atlanta, GA. Poster
30. **Jurney P.**, Singh V., Agarwal R., Marshal S., Caldorera-Moore M., Sreenivasan S.V., Roy K., Shi L., “Nanoimprint Manufacturing of Shape-Specific, Stimuli-Responsive Polymeric Nanocarriers for Drug Delivery in Cancer Therapy" The University of Texas at Austin Graduate recruitment Poster session 4-5 March, 2011 Austin, TX. Poster (**Best poster award**)
31. Hari Hara Sudhan Lakshmanan, Aditya Pore, Rachel Thompson, Jeevan Maddala, **Jurney P.**, Joseph Shatzel, Siva Vanapalli, Owen McCarty, “Design and validation of a microfluidic pillar device to study hemostasis under flow”, APS Division of Fluid Dynamics, 2019.
32. Anderson D., **Jurney P.**, Cutiongco M., Pohan G., Chevallier P., Mantovani D., Yim E., Hinds M., Reactive ion surface modification of vascular graft materials enhances endothelialization without promoting thrombosis. American Heart Association Basic Cardiovascular Scientific Sessions, Portland, OR. May 2017. Poster
33. Agarwal R., Singh V., Marshall S., **Jurney P.**, Shi L., Sreenivasan S.V., Roy K. “Shape Matters: Effect of Polymeric Nanocarriers Shape on Epithelial and Endothelial Cell Lines” Society of Controlled Release July 20-24 2013 Annual Meeting, Honolulu, HI. Poster.
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