

Jorge Jimenez

PHD CANDIDATE · BIOENGINEERING

University of Pittsburgh, Pittsburgh, PA, USA, 15213

✉ jimenez.jorgeaz@email.com | 📷 jimenezjorge272712

Education

University of Pittsburgh

PHD BIOENGINEERING

- Advisor: Dr. Morgan Fedorchak

Pittsburgh, PA, USA

2016 - Dec 2021

Arizona State University

BSE BIOMEDICAL ENGINEERING

- Summa cum laude

Tempe, AZ, USA

2012 - 2016

Honors and Awards

- 2020 **AAAS Emerging Research Travel Award**, AAAS, Washington D.C.
- 2017-2019 **NIH T32 Vision Science Training Fellowship**, University of Pittsburgh
- 2019 **SACNAS Conference Travel Award**, SACNAS, Honolulu, HI
- 2018 **SFB STAR Travel Award**, SFB, Atlanta, GA
- 2016 **Bevier Bioengineering Award**, University of Pittsburgh
- 2016-2017 **NSF-AGEP K. Leroy Irvis Fellowship**, University of Pittsburgh
- 2014-2015 **Fulton Undergraduate Research Initiative Grant**, Arizona State University
- 2015 **Argylo Lalos Tribute Scholarship**, Arizona State University
- 2012-2016 **Reagents High Honor Endorsement Scholarship**, Arizona State University

Research Experience

- 2016- 2021 **Graduate Research Assistant**, Morgan V. Fedorchak Lab - project: Sustained Release of Cysteamine from a Topical Microsphere/Thermoresponsive Gel *University of Pittsburgh*
- 2018- 2021 **Teaching-as-Research**, Center for the Integration of Research, Teaching and Learning - project - Gauging Student Interest on the Social Impact of Drug Delivery Systems *University of Pittsburgh*
- 2014-2015 **Undergraduate Researcher**, Junseok Chae Lab - project: Ultrathin membrane for Bladder Cancer Detection *Arizona State University*
- June 2014 **NSF REU - Summer Researcher**, Georgia Papavasiliou Lab - project: Photopolymerization of PEGDA Hydrogels for Islet Cell Transplantation *Illinois Institute of Technology*

Industry Experience

- 2015-2016 **Quality Engineering Intern**, C.R. Bard - New Product Development for Biopsy Needles *Tempe, Arizona*

Publications

- Jimenez, J.**, Michael A. Washington, Jayde L. Resnick, Ken K. Nischal, and Morgan V. Fedorchak. "A Sustained Release Cysteamine Microsphere/Thermoresponsive Gel Eyedrop for Corneal Cystinosis Improves Drug Stability." *Drug Delivery and Translational Research*, February 4, 2021. <https://doi.org/10.1007/s13346-020-00890-6>
- Jimenez, J.**, Sakthivel M., Nischal K.K, Fedorchak, M.V. "Drug Delivery Systems and Novel Formulations to Improve Treatment of Rare Corneal Disease" *Drug Discovery Today*, March 12, 2019. <https://doi.org/10.1016/j.drudis.2019.03.005>

Jimenez, J., Dukes A.A, Fedorchak, M.V. “Integrating Public Health Topics in Drug Delivery System Education” American Society of Engineering Education, July 26, 2021. <https://peer.asee.org/37364>

Canady R., Thirukumaran D., **Jimenez, J.**, “Defining the Race and Ethnic Standards for Federal Statistics and Administrative Reporting” Journal of Science, Policy and Governance. Accepted with review. September 2021

Presentations

Jimenez, J., Washington, M.A., Nischal K.K, Fedorchak, M.V. (2020, February). Ocular Drug Delivery for Corneal Cystine Crystals in Cystinosis. Podium In: Emerging Researchers National Conference in STEM. Association for the Advancement of Science. Washington D.C., USA

Jimenez, J., Washington, M.A., Nischal K.K, Fedorchak, M.V. (2018, September). Drug Delivery for Corneal Cystinosis. Podium In: XXIII Biennial Meeting of the International Society for Eye Research. International Society for Eye Research, Belfast, Northern Ireland, UK.

Jimenez, J., Washington, M.A., Nischal K.K, Fedorchak, M.V. (2018, April). Preliminary Optimization of a Controlled Release Cysteamine Eye Drop. Talk In: Society for Biomaterials 2018 Annual Meeting. Society for Biomaterials, Atlanta, Georgia, USA

Jimenez, J., Washington, M.A., Nischal K.K, Fedorchak, M.V. (2017, April). Development of a Topical Ophthalmic Biomaterial for the Controlled Release of Cysteamine. Poster In: Society for Biomaterials 2017 Annual Meeting. Society for Biomaterials, Minneapolis, Minnesota, USA

Jimenez, J., and Chae, J. (2015, April) “Screening Bladder Cancer with an Ultrathin Silicone Membrane,” Fulton Undergraduate Research Initiative Symposium, Tempe, Arizona, USA

Jimenez J., He Y., Papavasiliou, G. “Hydrogel Scaffold for Neovascularization in Islet Cells.” National Science Foundation Research Experience for Undergraduates Symposium., Illinois Institute of Technology, Chicago, IL, USA

Teaching Experience

Spring 2020	Controlled Drug Delivery , Co-instructor	University of Pittsburgh
Spring 2018	Controlled Drug Delivery , Graduate Teaching Assistant	University of Pittsburgh
Fall 2017	Bioengineering Transport Phenomena , Graduate Teaching Assistant	University of Pittsburgh
Fall 2015	Biomaterials Lab , Undergraduate Teaching Assistant	Arizona State University
Spring 2015	Introduction to Biomedical Engineering , Undergraduate Teaching Assistant	Arizona State University

Mentoring

- 2020-2021 **Emma Phelps**, Undergraduate Researcher, University of Pittsburgh
- 2018-2021 **Jayde Resnick**, Lab and animal technician, University of Pittsburgh
- 2017-2019 **Meera Sakthivel**, Undergraduate Researcher, University of Pittsburgh
- 2019-2019 **Maya Groff**, Summer high school intern, University of Pittsburgh
- 2019-2020 **Rene ”Janet” Canady**, Pitt EXCEL Mentee, University of Pittsburgh

Outreach & Professional Development

- 2019-2024 **LatinXinBME**, Community Chair Executive Board
- 2016-2021 **Pitt STRIVE**, Scholar and highschool outreach
- 2020-2021 **Design Together**, Grant recipient and instructor
- 2019-2021 **Emerging Latinx Reading and Publishing Group**, Independent researcher
- 2018-2021 **Pitt EXCEL**, Graduate student mentor

PROFESSIONAL MEMBERSHIPS

Society for Biomaterials

International Society for Eye Research

Society for Advancing Chicanos and Native Americans in STEM

Society for Hispanic Professional Engineers

American Society for Engineering Education

Center for the Integration of Research, Teaching, and Learning