

# Josh Myers-Dean

[Website](#)

[Github](#)

[Google Scholar](#)

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Boulder, CO

## EDUCATION

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### University of Colorado, Boulder

*Computer Science, Ph.D. - GPA: 4.0/4.0*

Advisor: *Danna Gurari*

Boulder, CO

*Fall 2021 - Present*

### Western Washington University

*Computer Science, BSc.; Mathematics Minor*

Advisors: *Scott Wehrwein, Filip Jagodzinski*

Bellingham, WA

*Awarded June 2021*

## RESEARCH EXPERIENCE

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### Adobe Research

*Research Scientist Intern*

San Jose, CA

*May 2022 - August 2022*

### University of Colorado Boulder

*Graduate Research Assistant*

Boulder, CO

*August 2021 - Present*

### Pacific Northwest National Laboratory

*NLP Research Intern*

Richland, WA

*August 2020 - September 2021*

### Western Washington University

*Undergraduate Research Assistant*

Bellingham, WA

*April 2019 - June 2021*

## PROFESSIONAL EXPERIENCE

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### Pacific Northwest National Laboratory

*Technical Intern - VR/AR*

Richland, WA

*June 2020 - August 2020*

### Western Washington University

*Web Applications Developer*

Bellingham, WA

*April 2019 - June 2020*

## TEACHING EXPERIENCE

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### University of Colorado Boulder

*Grader - [Neural Networks & Deep Learning](#)*

Boulder, CO

*January 2022 - April 2022*

### Western Washington University

*Teaching Assistant - [Intro to Computer Vision](#), [Computer Graphics](#)*

Bellingham, WA

*September 2020 - March 2021*

## PUBLICATIONS

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### † Denotes equal contribution

- **Josh Myers-Dean**, Yinan Zhao, Brian Price, Scott Cohen, Danna Gurari. Generalized Few-Shot Semantic Segmentation: All You Need is Fine-Tuning. *Under Review at IJCV*
- Trevor Ortega, Thomas Nelson, Skyler Crane, **Josh Myers-Dean**, Scott Wehrwein. Computer Vision for International Border Legibility. *To appear at WACV 2023*
- Haley A. Wofford<sup>†</sup>, **Josh Myers-Dean**<sup>†</sup>, Brandon A. Vogel, Kevin Alexander Estrada Alamo, Frederick A. Longshore-Neate, Filip Jagodzinski, and Jeanine F. Amacher. Domain analysis and motif matcher (damm): A program to predict selectivity determinants in monosiga brevicollis pdz domains using human pdz data. *Molecules*, 26(19), 2021. [Project Page](#)

- David H. Smith, Qiang Hao, Christopher D. Hundhausen, Filip Jagodzinski, **Josh Myers-Dean**, and Kira Jaeger. Towards modeling student engagement with interactive computing textbooks: An empirical study. In *Proceedings of the 52nd ACM Technical Symposium on Computer Science Education, SIGCSE '21*, page 914–920, New York, NY, USA, 2021. Association for Computing Machinery
- **Josh Myers-Dean** and Scott Wehrwein. Semantic pixel distances for image editing. In *The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*, June 2020. *Accepted for oral presentation* [Project Page](#)
- Sam Herr<sup>†</sup>, **Josh Myers-Dean**<sup>†</sup>, Hunter Read<sup>†</sup>, and Filip Jagodzinski. Petra: Drug engineering via rigidity analysis. *Molecules*, 25(6):1304, Mar 2020

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## PATENTS

- Work done at Adobe: *Under Review*

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## AWARDS

- Adobe Code Quality Jam: Best Collaboration, Best Documentation HM, Overall Code Quality HM - 2022
- Graduate Research Fellowship Program: NSF - 2021-2026
- Early Career Professional Development Fellowship: CU Boulder Computer Science - 2021
- James Lee Johnson Memorial Endowment: Western Washington University Computer Science - 2020
- 1<sup>st</sup> Place - Biosurveillance Mobile App. Dev. Competition: Pacific Northwest National Laboratory - 2020
- Federal Pell Grant: 2015-2021

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## PRESENTATIONS

- Giving Context: Entity Classification from a Single Name: August 2021, PNNL Virtual Research Symposium
- Robust Entity Tagging in the Wild: December 2020, PNNL Virtual Research Symposium
- Semantic Pixel Distances for Image Editing: June 2020, CVPR NTIRE. [Video](#)
- Bash: Fall 2019, [Materials](#)
- Machine Learning: Fall 2019, Winter 2020, [Materials](#)
- API: Winter 2020, [Materials](#)

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## OUTREACH

- ITLP K-12 [Program Page](#)
- Teen Science Cafe [Program Page](#)
- CU Boulder PhD Application Mentoring [Program Page](#)
- WWU Computer Science Peer Tutor [Program Page](#)
- Sunnyland Elementary School “Hour of Code” [Program Page](#)

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## TECHNICAL SKILLS

- **Languages:** Golang, Python, Javascript, C#, MySQL, R, Shell, Julia, L<sup>A</sup>T<sub>E</sub>X
- **Technologies & Frameworks:** Docker, Git, PySpark, AWS S3, AWS EC2, PyTorch, Numpy, Unity

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## RELEVANT COURSES

- Deep Learning, Computer Vision, Computer Graphics, Statistical Methods, Numerical Analysis, Data Driven Modeling, Deep Reinforcement Learning