SEAS Vitae AY 2021-2022

Peer-Reviewed Publications

2022


2021


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Names in **boldface** refer to SEAS faculty members. Names that are *underlined* refer to SEAS students.


**Sprint, G (2021) "Teaching Test-driven Development of Algorithms behind Data Science Library APIs," Journal of Computing Sciences in Colleges, October, pp 18–27.**


**Peer-Reviewed Conference Proceedings**

**2022**


**2021**


**Dorie, B (2021) "Figuring 'It' Out: Informational Literacy for Problem Scoping in Engineering Design (Theory)," ASEE Annual Conference & Exposition, virtual, July 26–29, pp 1–16.**


Books & Book Chapters

2022


2021


Conference Presentations (contributed, invited, abstracts)

2022


2021


**Workshops/Short Course/Seminars**


**Young, R** (2021) "Talking about Diversity, Equity and Inclusion (DEI) with Civil and Environmental Engineering Students," Center for Infrastructure Transportation and Education (CIT-E), virtual, August 10–11.

**Honors & Awards**

**Shimabuku, K** (2022) CREATE Award for Teaching, Gonzaga University Office of Sustainability.

U.S. News & World Report Ranking 2021-2022: #22 Best Undergraduate Engineering Programs *at schools where a doctorate is not offered. This is up one spot from 2020-21, and makes our sixth-straight year in the top 10%.

**Funded Research**

**2022 New Externally-Funded Research**


**2021 New Externally-Funded Research**


**Ongoing Externally-Funded Research**


**Funded within Gonzaga University**

Sprint, G (2021) Ecological Momentary Assessment and Wearable Date for Online Recovery Analysis, Gonzaga University Research Council award.

Funded within the School of Engineering & Applied Science


Other Scholarly Activity

Ohara, N, A Neupane, R Young, and AR Campos (2021) "Characterization of Blow Over Risk in the Wyoming Highway System" (Tech Report), Wyoming Department of Transportation.

Chen, T: Faculty Advisor, American Society of Mechanical Engineers student section, 2012–present.

Crandall, A, BL Thomas, and B Minor (2022) Sustainability: Challenges in Engineering Smart Environments (Guest Editors for special issue). Journal of Sustainability, MDPI publisher, ISSN 2071-1050.

Crandall, A: SEAS Representative, Faculty Senate and Academic Committee, September 2021 - present

Ganzerli, S: Faculty Advisor, Society of Women Engineers student chapter, 2017–present.

Muszynski, M: Regional Governor, Order of the Engineer, 2020–present.

Niezgoda, S: Faculty Advisor, American Society of Civil Engineers student section, 2018–present.

Niezgoda, S: Faculty Advisor, Order of the Engineer - Link of the Engineer #279, 2018–present.

Schultz, J: Faculty Advisor, Tau Beta Pi - Washington Delta Chapter, September 2016–present.

Shimabuku, K: Faculty Advisor, Gonzaga Sustainable Energy (GSE), September 2021–present.

Shimabuku, K: Faculty Advisor, Zags Without Borders, September 2020–present.

Tadrous, J: Associate Editor, Institute of Electrical and Electronic Engineers Access, April 2019–present.
Tadrous, J: Faculty Advisor, Institute of Electrical and Electronic Engineers student chapter, 2019–
present.


Young, R: Associate Editor, ASCE Journal on Civil Engineering Education, 2019–present

Young, R: Board Member, City of Spokane’s Bicycle Advisory Board and Planning Commission’s
Transportation Subcommittee

Young, R: Member, Technical Advisory Committee, Spokane Regional Transportation Council
(SRTC), June 2020–present.

Accomplishments & Awards: Students

Gonzaga RoboSub, a student-directed project under the GU Robotics Club, competed in the
international RoboNation RoboSub competition in August. The Sensor Optimization Team
placed 5th in their division.

Gonzaga’s chapter of the engineering honor society, Tau Beta Pi, inducted 19 members: 7 CE, 5 ECE,
7 ME.

SEAS Civil Engineering students who presented at the 2022 Spokane Intercollegiate Research
Conference (April 23 at Whitworth University) are as follows:
· Drew Barlow (CE’22), Alan Champagne (CS’23), Jem Pedicord (CS’23) & Sam Albers (CE’22),
  Optimization Using Fully Stressed Design.
· Kyle Nolan (CE’22) & Nicole Stanton (CE’22), Regenerating Bonechar Filters for Fluoride
  Removal in Low-Income Communities (poster). Faculty Advisor: K Shimabuku

SEAS Computer Science students who presented at the 2022 Spokane Intercollegiate Research
Conference (April 23 at Whitworth University) are as follows:
· Hannah Cole (CT’22), Killer Whale Population Dynamics. Faculty Advisors: P De Palma, R
  Cangelosi
· Leon Garcia-Camargo (CS’23), Topological Data Analysis.
· Angela George (CT’22), La Frontera Within.
· Katie Imhof (CS’24), Jakob Kubicki (CS’23), and Adam Lee (CS’22), Collaborative Community
  Building Tool for Novice Computer Science Students. Faculty Advisor: D Olivares
· Ben Puryear (CS’24), Github Copilot: The Future of AI Assisted Programming. Faculty Advisor: G
  Sprint
· Xiwen Zhong (CT’25), Hydrogen Embrittlement Testing of 304 Stainless Steel after >2 years of
  Gaseous Hydrogen Exposure (poster). Faculty Advisor: P Ferro
· Caleb Lefcort (CS’24) and Theodore Ferro (CS’25), Hydrogen Embrittlement Testing of CPT
  Dogbones after >2 years of Gaseous Hydrogen Exposure (poster). Faculty Advisor: P Ferro
· Alan Poblette (CS’22) & Kole Davis (CT’24), HazARd Real Time Tripping Hazard Augmented
  Reality System User Experience Prototyping. Faculty Advisor: A Crandall
· Jesus Espinoza (CS,’23), Child Directed Speech. Faculty Advisor: P De Palma

SEAS Mechanical Engineering students who presented at the 2022 Spokane Intercollegiate
Research Conference (April 23 at Whitworth University) are as follows:
· Jackson Swets (ME’25), Hydrogen Embrittlement Testing of 304 Stainless Steel after >2 years of
  Gaseous Hydrogen Exposure (poster). Faculty Advisor: P Ferro
· Yuchen Huang (ME’22), Emily Andresen (ME’22), Avery Steward (ME’22) & Michael Wiest
(ME’22), *Three-dimensional Motion Capture of Free-Flying Insects* (poster). Faculty Advisor: **T Fitzgerald**

ASCE Student Chapter team placed Second in the Environmental Engineering Competition, 2022 Pacific Northwest ASCE Student Symposium, virtual, April 27-29. Faculty Advisor: **K Shimabuku**

**Bresnan, Alex J** (EE’22) received the Jerome Nadal, S.J., Returning Adult Award at Academic Convocation 2022

**Campos, Antonio Roman** (CE’22) presented his regional-prize-winning technical paper on civil engineering ethical responsibilities during the COVID-19 epidemic at the ASCE Region 8 student conference, where it won the region’s top prize and advanced to the national finals.

**Campos, Antonio Roman** (CE’22) selected as a Hispanic Scholarship Foundation Scholar and award finalist.

**Chock, Christopher** (EE, ’23) and **Nicholas Linthacum** (CpE, ’23) were inducted into the Jesuit Honor Society, Alpha Sigma Nu.

**Hernandez, Kayla** (CE’22) awarded a scholarship from the Renton Regional Community Foundation in partnership with Osborn Consulting. This the first year of this scholarship for a BIPOC student who has demonstrated a commitment to developing public infrastructure in the Puget Sound Region.

**Ng, Fisher** (ME’22) received the Mathematics Carsrud Award at Gonzaga’s Academic Convocation.

**Ng, Fisher** (ME’22) received the SEAS Student of the Year award at Gonzaga’s Academic Convocation.

**Poblette, Alan** (CS’23) received the Jack McElroy Research Student Scholar award for *HazARD: An Augmented Reality Fall Prevention System*. Total: $4200/12 months. Faculty Advisor: **A Crandall**

**Stevenson, Audrey** (CE’23) received the Third Year Class Award at Gonzaga’s Academic Convocation.


**Bogdan, Drew** (CS’24), **Kevin Dang** (CS’23), **Kole Davis** (CS’24), and **Vincent Do** (CS’23) placed First Overall, Lower Division at the Spokane Mayor’s Cup Capture the Flag Cyber Security Competition, Eastern Washington University, February 5, 2022.

**Higa, Ethan** (CpE’22) team placed Third Overall, Upper Division at the Spokane Mayor’s Cup Capture the Flag Cyber Security Competition, Eastern Washington University, February 5, 2022.