

## Jacob VanDrunen

---

Email: [jvandrun@uci.edu](mailto:jvandrun@uci.edu)

LinkedIn: [jackvandrunen](#)

GitHub: [jackvandrunen](#)

### Education

\***Ph.D.** Logic and Philosophy of Science. *University of California, Irvine*. 2020 – .

**B.S.** Computer Science / Intelligent Systems. *University of California, Irvine*. 2016 – 2020.

Cum laude. Phi Beta Kappa. University Honors.

Thesis: "Generalized Logical Self-Assemblers" (under J. A. Barrett and R. H. Lathrop)

### Publications

- (2) Herrmann, D. A. and **VanDrunen, J.** "Sifting the signal from the noise." Forthcoming in *British Journal for the Philosophy of Science*.
- (1) Barrett, J. A. and **VanDrunen, J.** "Language games and the emergence of discourse." *Synthese* 200, 159 (2022).

### Conferences

- (3) **VanDrunen, J.** and Herrmann, D. A. "Naturalizing natural salience." *Philosophy of Science Association*, November 2022.
- (2) Herrmann, D. A. and **VanDrunen, J.** "Sifting the signal from the noise" (workshop paper). *Emergent Communication Workshop at ICLR 2022*, April 2022.
- (1) **VanDrunen, J.** and Pizlo, Z. "The effectiveness of Multidimensional Scaling in TSPs whose metric is not Euclidean" (poster). *Society for Mathematical Psychology*, July 2019.

### Patents

- (1) Buibas, M., Quinn, J., Bapst, A., Khorsandi, R., Shah, N., **VanDrunen, J.**, Wildie, M., and Yousefisahi, S. "System that Performs Selective Manual Review of Shopping Carts in an Automated Store." US20210158430A1

### Other Abstracts

- (1) Pizlo, Z. and **VanDrunen, J.** "The status of mental representations in cognitive functions." *Annual Interdisciplinary Conference*, February 2020.

### Fellowships and Grants

- (4) Social Science Merit Fellowship. *University of California, Irvine*. 2020-2026.
- (3) "Self-Assembling Games with Many Players." *University of California, Irvine* (Undergraduate Research Opportunities Program fellowship). 2020.
- (2) "The Effectiveness of Multidimensional Scaling in the Traveling Salesperson Problem." *University of California, Irvine* (Summer Undergraduate Research Program fellowship). 2019.

(1) Regents' Scholarship. *University of California, Irvine*. 2016-2020.

### **Industry Experience**

Science Intern. *Accel Robotics Corp.* June 2020 – September 2020.

Software Engineering Intern. *Accel Robotics Corp.* July 2017 – September 2018.

### **Coursework (Graduate or Equivalent)**

Set Theory (Meadows)

Metalogic (Wehmeier)

Incompleteness (Meadows)

Kant's First Critique (Heis)

Space and Geometry (Heis)

American Pragmatism (Barrett)

Social Contract (Skyrms / Huttegger)

Chance (Skyrms / Huttegger)

Philosophy of Science Foundations (Stanford)

Frontiers in Artificial Intelligence (Baldi)

Human Problem Solving (Pizlo)

### **References**

Jeffrey A. Barrett

Professor, Department of Logic and Philosophy of Science, University of California, Irvine.

j.barrett@uci.edu

Zygmunt Pizlo

Professor, Department of Cognitive Science, University of California, Irvine.

zpizlo@uci.edu

Jack Quinn

Scientist, Accel Robotics Corp.

jquinn@accelrobotics.com