

Adam J. Berlier

Ph.D. Student · Computer Science · University of Maryland Baltimore County

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Education

University of Maryland Baltimore County
Ph.D. Computer Science

Baltimore, MD

Aug. 2020 - present

• Advisor: Dr. Cynthia Matuszek

Johns Hopkins University
M.S. Electrical and Computer Engineering

Baltimore, MD

Aug. 2018 - Jul. 2020

Embry-Riddle Aeronautical University
B.S. Mechanical Engineering

Daytona Beach, FL

Aug. 2013 - May 2018

Professional Experience

Focused Ingenuity Inc.
Data Science Consultant, SETA

Baltimore, MD

Oct. 2022 - present

Johns Hopkins Applied Physics Laboratory
AI/Robotics Research Scientist

Laurel, MD

May 2016 - Oct. 2022

Embry-Riddle Aeronautical University
College of Engineering Dean's Assistant

Daytona Beach, FL

Dec. 2014 - May 2018

Delta Air Lines
PW2000 Core Configuration Engineering Co-op

Atlanta, GA

May 2016 - Oct. 2022

GE Aviation
Repair Technology Engineering Intern

McAllen, TX

May 2015 - Sep. 2015

Publications

Berlier, A. J., Bhatt, A., & Matuszek, C. (2022, October). Augmenting Simulation Data with Sensor Effects for Improved Domain Transfer. In European Conference on Computer Vision (pp. 765-779). Cham: Springer Nature Switzerland.

Buczak, A., Baugher, B., **Berlier, A.**, Scharfstein, K., & Martin, C. (2022). Explainable Forecasts of Disruptive Events using Recurrent Neural Networks. In 2022 IEEE International Conference on Assured Autonomy (ICAA) (pp. 64-73).

Higgins, P., Kebe, G. Y., **Berlier, A.**, Darvish, K., Engel, D., Ferraro, F., & Matuszek, C. (2021, March). Towards making virtual human-robot interaction a reality. In Proc. of the 3rd International Workshop on Virtual, Augmented, and Mixed-Reality for Human-Robot Interactions (VAM-HRI).

Awards, Fellowships, & Grants

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| 2021 | Innovation Initiative Grant, Johns Hopkins University Applied Physics Laboratory Desk Award, Johns Hopkins University Applied Physics Laboratory Special Achievement Award, Johns Hopkins University Applied Physics Laboratory NXP HoverGames Challenge Grand Champion, NXP Semiconductors | \$ 15,000 \$ 3,000 |
| 2020 | REDx DISCOVER Award, Johns Hopkins University Applied Physics Laboratory Team Achievement Award, Johns Hopkins University Applied Physics Laboratory Lump Sum Merit Award, Johns Hopkins University Applied Physics Laboratory | |
| 2019 | Propulsion Grant, Johns Hopkins University Applied Physics Laboratory Special Achievement Award, Johns Hopkins University Applied Physics Laboratory Special Achievement Award, Johns Hopkins University Applied Physics Laboratory Coin Award, Johns Hopkins University Applied Physics Laboratory | \$ 250,000 |
| 2018 | People's Choice for Best Research Award, Embry-Riddle Aeronautical University Office of Undergraduate Research Student Poster Competition 3rd Place, American Society for Engineering Education | |
| 2017 | Ignite Research Grant, Embry-Riddle Aeronautical University Office of Undergraduate Research Student Employee of the Year, Embry-Riddle Aeronautical University College of Engineering | \$ 10,000 |
| 2015 | Corporate Above and Beyond Impact Award, GE Aviation Project Arduinio Eastern United States Champion, THALES Group | |
| 2014 | Emerging Leader Award, Embry-Riddle Aeronautical University | |

Presentations

Contributed Presentations

Berlier, A. J. 2018. Integration of Augmented Reality and Neuromuscular Control Systems for Remote Vehicle Operations. Poster: World Congress of Biomechanics 2018, Dublin, Ireland.

Mentoring

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| 2020 | Yocheved Kopel, CIRCUIT Research Fellow, John Hopkins University Kyllie Furukawa, CIRCUIT Research Fellow, John Hopkins University Jerin Alam, CIRCUIT Research Fellow, University of Maryland Baltimore County |
| 2021 | Beruktawit Gebreamlak, Undergraduate Intern, Columbia University |
| 2022 | Ryan Ellis, Undergraduate Intern, Cornell University |

Outreach & Professional Development

Service and Outreach

- 2019- Johns Hopkins University Applied Physics Laboratory, **Artificial Intelligence**
- 2021 **and Machine Learning Focus Area Team**
- 2021 Johns Hopkins University Applied Physics Laboratory, **Air and Missile Defense**
- Sector Communications Insight Team**
- 2015- Society of Hispanic Professional Engineers (SHPE) Las Aguilas Chapter, **Board**
- 2016 **of Directors**

Professional Memberships

Military Operations Research Society (MORS)
Association for Unmanned Vehicle Systems International (AUVSI)