

Alec A. Reed

CONTACT INFORMATION

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EDUCATION

Department of Computer Science, University of Colorado Boulder

Doctor of Philosophy with Prof. Christoffer Heckman

May 2025 (Expected)

Department of Electrical and Computer Engineering, University of Washington

Master of Science, Electrical Engineering

May 2019

School of Engineering and Applied Science, Gonzaga University

Bachelors of Science, Electrical Engineering

May 2017

PROFESSIONAL APPOINTMENTS

Pattern Labs

Research Intern

June 2023–September 2023

The Boeing Company

Network Design Engineer

June 2017–June 2021

The Boeing Company

Electromagnetic Effects Intern

May 2016–September 2016

[Google Scholar page.](#)

PEER-REVIEWED CONFERENCE PROCEEDINGS

Reed, A, Heckman, CR. (2023). TRrain: Inference and Extension of Unseen Terrain using Geometry-Aware Transformers . *In Preparation*.

Reed, A, Albin, D, Pasricha, A, Heckman, CR. (2023). Transformer-based Learning Models of Dynamical Systems for Robotic State Prediction. *Submitted and under review*. 8 Pages.

Reed, A., Heckman, CR. Looking Around Corners: Generative Methods in Terrain Extension. Robotics Science and System (RSS) Workshop on Inference and Decision Making for Autonomous Vehicles 2023. 4 Pages.

Reed A, Berger G, Sankaranarayanan S, Heckman CR. Verified Path Following Using Neural Control Lyapunov Functions. *Conference on Robot Learning (CoRL)*; 2022. 10 pages, acceptance rate: 39%.

AWARDS

Research Assistant Funding, NSF award #1932189

January 2021 - Current

Early Career Professional Development Fellowship

November 2021

CU Boulder fellowship, \$1000 award to attend a top tier conference.

TEACHING
ASSISTANT

Fall 2021: CSCI 1300 "Introduction to Programing".

PATENT

Network Including Data Monitoring

Patent Granted: 23 Sept, 2023

Patent No.: United States 11770328