Chethan M. Parameshwara

4426, A.V. Williams Bldg, 8223 Paint Branch Dr, College Park, MD 20740

☐ (202)-476-9623 • ☐ cmparam9@terpmail.umd.edu
in www.linkedin.com/in/cmparam/ • ☐ www.github.com/analogicalnexus

Education

University of Maryland

College Park, MD

Doctor of Philosophy, Neuroscience and Cognitive Science (NACS),

Aug 2017 - May 2021 (Expected)

Research Interest - Bio-inspired Machine Vision and Learning for Robotics

Relevant Courses - Computational Neuroscience, Cognitive Neuroscience, Introduction to Neuroscience

University of Maryland

Master of Engineering, Robotics,

College Park, MD

Aug 2015 – May 2017

Relevant Courses - Image Understanding, Perception, Machine Learning, Planning Algorithms, Numerical Optimization

Visvesvaraya Technological University

Mysore, India

Sep 2010 – Jun 2014

Bachelor of Engineering, Electronics & Communication,

Relevant Courses - Data Structures and Algorithms in C++, Embedded Systems, Image Processing

Relevant Experience

Graduate Research Assistant

Perception & Robotics Group, University of Maryland

College Park, MD

Aug 2017 – Present

- Working under the guidance of Prof. Yiannis Aloimonos and Dr. Cornelia Fermüller on visual navigation problems such as Simultaneous localization and mapping(SLAM) and Visual odometry for autonomous robots using Neuromorphic Event-based camera

Department of Computer Science, University of Maryland

College Park, MD

Graduate Teaching Assistant

Aug 2018 – Present

- Teaching assistant for CMSC434 Introduction to Human Computer Interaction during Spring 2019
- Teaching assistant for CMSC426 Computer Vision course during Fall 2018

Telluride Neuromorphic Cognition Engineering Workshop

Telluride, CO

[°] Workshop Staff

Jun 2018 – Jul 2018

- 3-weeks hands-on workshop on neuromorphic engineering with top researchers in neuroscience, electronic engineering, machine learning, signal processing, cognition, and robotics
- Worked as a staff member in organizing the workshop

Robot Training Academy Inc. (RTA)

College Park, MD

Intern

Sep 2016 - Dec 2016

- RTA was a spin-off company founded by the University of Maryland Computer Science professor and researchers
- Implemented a hand gesture tracking software package for Baxter robot in C++ ROS architecture using 3D point cloud data and assisted in integration and testing activities

Skills

- Programming Languages: C++, Python, MATLAB
- Software and Frameworks: TensorFlow, ROS, OpenCV, PCL

Publications

- Mitrokhin, A., Fermuller, C., **Parameshwara, C.**, & Aloimonos, Y. Event-based moving object detection and tracking. IEEE/RSJ Int. Conf. Intelligent Robots and Systems (IROS), 2018
- Kramida, G., Aloimonos, Y., **Parameshwara, C.**, Fermuller, C., Francis, N. A., & Kanold, P. Automated Mouse Behavior Recognition using VGG Features and LSTM Networks. In Visual Observation and Analysis of Vertebrate And Insect Behavior Workshop (VAIB).