# Arun Balajee Vasudevan

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INTERESTS Computer Vision, Multimodal Learning, Motion Planning, 4D Reconstruction

CURRENT WORK AND EXPERIENCE

**Research Scientist, Amazon** **Present**
Multimodal learning

**Research Intern, Argo AI** **Apr 2022 – Nov 2022**
Motion Planning datasets and Data-driven Simulators

**Research Intern, Adobe** **Apr 2021 – June 2021**
Comparative Image aesthetics captioning

EDUCATION

**Carnegie Mellon University** **March 2025**
Postdoc under Prof. Deva Ramanan

**ETH Zurich** **Sept 2021**
PhD in Computer Vision, Advised by Prof. Luc Van Gool

**Ecole Polytechnique Federale de Lausanne** (EPFL) **Aug 2016**
Master in Computer Science **CGPA: 5.45/6.0**

**Indian Institute of Technology Jodhpur** (IITJ) **May 2014**
B.Tech. in Electrical Engineering **CGPA: 9.34/10.0**

ONGOING WORK **Digital Twins Simulator**: 3D Reconstruction of Dynamic Urban Scenes and Simulation of Actors

SELECTED PUBLICATIONS

*Clink! Chop! Thud! - Learning Object Sounds from Real-World Interactions*
Mengyu Y, Yiming C, Haozheng P, Siddhant A, **Arun Balajee Vasudevan**, James Hays **ICCV 2025**

*Planning with Adaptive World Models for Autonomous Driving*
**Arun Balajee Vasudevan**, Neehar Peri, Jeff Schneider, Deva Ramanan **ICRA 2025**

*LCA-on-the-Line: Benchmarking Out of Distribution Generalization with Class Taxonomies*
Jia Shi, Gautam Gare, ..., **Arun Balajee Vasudevan**,..., Deva Ramanan [**Oral**] **ICML 2024**

*The Un-Kidnappable Robot: Acoustic Localization of Sneaking People*
Mengyu Y, Patrick G, Samarth B, **Arun Balajee Vasudevan**, Charles K, James Hays. **ICRA 2024**

*Sound and Visual Representation Learning with Multiple Pretraining Tasks*
**Arun Balajee Vasudevan**, Dengxin Dai, Luc Van Gool. **CVPR 2022**

*Semantic Object Prediction and Spatial Sound Super-Resolution with Binaural Sounds*
**Arun Balajee Vasudevan**, Dengxin Dai, Luc Van Gool. [**Spotlight**] **ECCV 2020**

PATENTS

Learning Driving Behavior Control Parameters using Machine Learning Models **Sept 2024**
**Arun Balajee Vasudevan**, Neehar Peri, Deva Ramanan [Applied]

System and method for navigating a vehicle using language instructions
Wim Abbeloos, Dengxin Dai, Arun Balajee Vasudevan, Luc Van Gool **[Granted]** **Feb 2024**

A method for training a neural network to describe an environment on the basis of an audio signal
Wim Abbeloos, Arun Balajee Vasudevan, Dengxin Dai, Luc Van Gool **[Published]** **Feb 2023**