## Jorge J. Ortiz

## Associate Professor (with Tenure) • Electrical and Computer Engineering Director, Sensing and Reasoning (SnR) Lab

**Rutgers University** 

jorge.ortiz@rutgers.edu • jorgeortizphd.info • 617-784-6550

	Education
Ph.D., Computer Science	2013
University of California, Berkeley	
M.S., Computer Science University of California, Berkeley	2010
B.S., Computer Science  Massachusetts Institute of Technology	2003
	Academic Appointments
Associate Professor (with Tenure) Rutgers University	Sept. 2025 – present
Assistant Professor Rutgers University	Sept. 2018 – 2025
	Research Leadership
Director, Sensing and Reasoning (SnR) Lab Rutgers University	Sept. 2018 – present
	Industry Experience
AI and Computer Vision Lead, Baseball Operations New York Yankees	Dec. 2019 – present
Research Staff Member IBM Research	Dec. 2013 – Aug. 2018
	Research Areas

Multimodal Learning and AI • Human-Computer Interaction • IoT and Smart Environments Computer Vision and Sensing • Machine Learning Applications

**Key Honors & Recognition** 

- Judge, Newsweek AI Impact Awards 2025
- Keynote Speaker, Workshop on Smart and Connected Indoor Environments (IEEE SECON 2017)
- Best Paper Awards: ICISSP 2018, Best Paper Finalists: IoTDI 2019, BuildSys 2015 (2x)
- Invited Panelist: JPMC Hispanic Heritage Month Tech Panel, Sports and AI Symposium (Columbia)

• NSF Graduate Fellowship Honorable Mention, Qualcomm Innovation Fellowship Finalist

Major Grants & Funding (\$6.9M+)

- NSF ReDDDoT Phase 2: Urban AI in Harlem, Co-PI (\$1.45M)
- NIH CAMERA Platform: Development, Co-PI (\$1.08M)
- NSF Engineering Research Center: Smart Streetscapes, Site PI (\$2.3M) Rutgers portion of \$26M
- NSF IUCRC: Standards and Ethics in AI, PI (\$20K)

Selected Publications

- **J. Ortiz** et al., "DeviceMien: Network Device Behavior Modeling for Identifying Unknown IoT Devices," *ACM IoTDI*, 2019. [Best Paper Finalist]
- M. Aldeer, **J. Ortiz**, et al., "PatientSense: Patient Discrimination from in-Bottle Sensors Data," *ACM MobiQuitous*, 2019.
- Y. Sun, N. Salami Pargoo, P. Jin, **J. Ortiz**, "Optimizing Autonomous Driving for Safety: A Human-Centric Approach with LLM-Enhanced RLHF," *ACM UbiComp Companion*, 2024.
- Z. Hussain et al., "Non-Invasive Techniques for Monitoring Different Aspects of Sleep: A Comprehensive Review," *ACM Trans. Computing for Healthcare*, 2022.
- D. Hong, H. Wang, **J. Ortiz**, K. Whitehouse, "The Building Adapter: Towards Quickly Applying Building Analytics at Scale," *ACM BuildSys*, 2015. [Best Paper Finalist]
- A. Bhattacharya et al., "Automated Metadata Construction to Support Portable Building Applications," *ACM BuildSys*, 2015. [Best Paper Finalist]

\_Students & Mentoring

Ph.D. Graduates: Tahiya Chowdhury (2022), Murtadha Aldeer (2023), Tong Wu (2023)

Research Focus: Human activity sensing, multimodal learning, IoT behavior understanding

Selected Professional Service

- Leadership: Steering Committee Chair BuildSys (2024-25), General Chair BuildSys (2022)
- 2025 TPC: ACM MobiHoc, Sensys, Buildsys, ICLR
- Major Workshops: NeurIPS 2021 Deep Learning & Differential Equations (Organizer)
- Conference Organization: CPS-IoT Week 2019 Publication Chair (5 conferences)

**Patents** 

12+ issued patents in IoT, sensing, and machine learning applications