

# Vitor Hadad, PhD

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*Interested in developing safe and efficient AI for social good*

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## Highlights

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- **Generative AI on edge devices:** develops lightweight multimodal models for complex visual perception tasks in limited hardware
- **Research Scientist:** background in theoretical statistics, causal ML, and adaptive experimentation (bandits)
- **Experienced developer:** builds reliable, maintainable systems for applied AI/ML in pytorch and the python scientific stack
- **Infrastructure and MLOps:** manages multi-node, multi-GPU training and evaluation pipelines on AWS
- **Generalist:** communicates effectively with engineers and scientists to align on shared priorities
- **Dependable:** delivers under tight timelines and complex requirements

## SELECT ACHIEVEMENTS

- Publications in top venues: Science Advances, PNAS, ICML, AISTATS, KDD — 700+ citations
- Developer of the R/C++ package `grf` — 360k+ downloads; 2024 Stanford Open Source Software Prize

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## Experience

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### Amazon, EdgeAI, Devices and Hardware

2021-Now

*Applied Scientist II (Lab126)*

- Developed and deployed sub-1B-parameter multimodal models for visual scene understanding and question answering on Amazon Echo devices
- Built internal pytorch-based tools for data-centric AI: automatic data augmentation, data valuation
- Promoted and led synthetic data generation initiatives across the organization
- Designed and patented radar-based ML models for contactless sleep monitoring

### Stanford University, Graduate School of Business

2018-2021

*Postdoctoral Researcher (PI: Susan Athey)*

- Led the lab's research on adaptive experimentation via multi-armed bandits
- Promoted AI/ML *for real-world social good* in collaboration with World Bank (20% more contraceptive uptake in Cameroon), NYC Dept. of Finance (10% more parking fee resolution among NYC drivers)
- Published research on statistical properties of flexible algorithms for experiment optimization (contextual bandits)
- Wrote tutorials on statistics and machine learning for audiences of diverse backgrounds
- Authored ML/stats tutorials and mentored 20+ lab members as lab grew 5x

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## Education

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**PhD, Economics** – Boston College, 2018

**MA, Economics** – Simon Fraser University, 2013

**BA, International Relations** – University of Tokyo, 2012