Sam D. Buchanan

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Current position

PhD Candidate, Columbia University, New York

Education

- 2018- PhD in Electrical Engineering, Columbia University
- 2018 MS in Electrical Engineering, Columbia University
- BS in Electrical Engineering, University of Kansas (with Distinction)

Publications

Conference

- 2021 Sam Buchanan, Dar Gilboa, and John Wright, *Deep Networks and the Multiple Manifold Problem*. ICLR 2021.
- 2019 Dar Gilboa, **Sam Buchanan**, and John Wright, *Efficient Dictionary Learning with Gradient Descent*. ICML 2019.
- 2018 Sam Buchanan, Tanbir Haque, Peter Kinget, and John Wright, *Efficient Model-Free Learning to* Overcome Hardware Nonidealities in Analog-to-Information Converters. IEEE ICASSP (2018).

Honors

- 2017-2021 NDSEG Fellow, US Department of Defense
 2016 Tesla Scholar, Columbia Electrical Engineering Department
 2014-2015 Foreign Language and Area Studies Fellow, University of Kansas Center for East Asian Studies
- 2013 Undergraduate Research Award, University of Kansas
- 2010–2014 National Merit Finalist Scholarship, University of Kansas

Teaching, service

 2018, 2019 Course assistant, Sparse Representation and High-Dimensional Geometry (ELEN 6886)
 2017 Organizer, Neural Networks Seminar Conference reviewing: CVPR 2019 (Outstanding Reviewer), NeurIPS 2020 (Top 10% Reviewers)

Affiliations

SIAM, IEEE (student member); IEEE-HKN (Gamma Iota chapter)