

Sam D. Buchanan

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Current position

Graduate Student, Columbia University, New York

Education

- 2016– PhD in Electrical Engineering, Columbia University
- 2018 MS in Electrical Engineering, Columbia University
- 2014 BS in Electrical Engineering, University of Kansas (with Distinction)

Research experience

- 2016– Columbia University, New York, NY
Advisor: John Wright
- 2016 Rome Research Site, Air Force Research Labs, Rome, NY
Advisor: Lingjia Liu
- 2011–2014 Center for Remote Sensing of Ice Sheets, Lawrence, KS
Advisor: John Paden

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

Publications

CONFERENCE

- 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).

Teaching, service

- 2018– Course assistant, Sparse Representation and High-Dimensional Geometry (ELEN 6886)
- 2017 Organizer, [Neural Networks Seminar](#)

Professional experience

2015–2016 Honeywell FM&T, Kansas City, MO
Position: Electrical engineer, test engineering (radars and RF components)

Affiliations

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