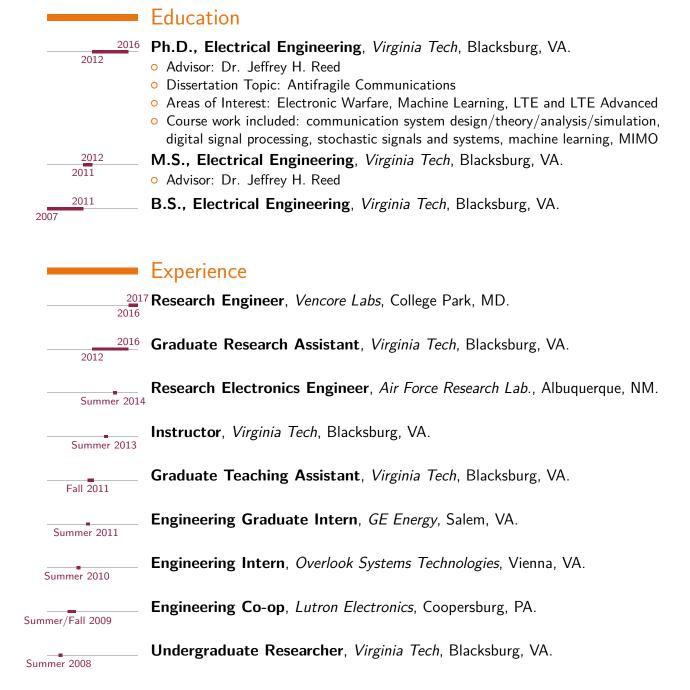
Marc Lichtman

Curriculum Vitae

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Publications

Link to Google Scholar Profile

- 1. M. Lichtman, T. C. Clancy, J. H. Reed, "FSK-Based Reactive Jammer Piggybacking," *IEEE Communications Letters*, 2016.
- 2. M. Lichtman, T. C. Clancy, J. H. Reed, "Reactive Jammer Piggybacking: Achieving Antifragile Electronic Warfare," *IEEE Military Communications Conference (MILCOM)*, 2016.
- 3. M. Lichtman, M. T. Vondal, T. C. Clancy, J. H. Reed, "Antifragile Communications," *IEEE Systems Journal*, 2016.
- 4. M. Lichtman, R. P. Jover, M. Labib, R. Rao, V. Marojevic, J. H. Reed, "LTE/LTE-A Jamming, Spoofing, and Sniffing: Threat Assessment and Mitigation," *IEEE Communications Magazine*, April 2016.
- M. Lichtman, J. Poston, S. Amuru, C. Shahriar, T. C. Clancy, R. M. Buehrer, J. H. Reed, "A Communications Jamming Taxonomy," *IEEE Security & Privacy*, Feb. 2016.
- M. Lichtman, J. H. Reed, "Anomaly-Based Intrusion Detection of Protocol-Aware Jamming," *IEEE Military Communications Conference (MILCOM)*, Oct. 2015.
- 7. M. Lichtman, J. H. Reed, "Analysis of Reactive Jamming against Satellite Communications," *International Journal of Satellite Communications and Networking*, May 2015.
- 8. M. Lichtman, T. Czauski, S. Ha, P. David, J. H. Reed, "Detection and Mitigation of Uplink Control Channel Jamming in LTE," *IEEE Military Communications Conference (MILCOM)*, Oct. 2014.
- 9. J. Kakar, K. McDermott, V. Garg, M. Lichtman, V. Marojevic, J. H. Reed, "Analysis and Mitigation of Interference to the LTE Physical Control Format Indicator Channel," *IEEE Military Communications Conference (MILCOM)*, Oct. 2014.
- M. Lichtman, J. Peck, V. Arellano, J. H. Reed, T. C. Clancy, "An Electronic Warfare Perspective of LTE" *IEEE Military Communications Conference (MILCOM)* ITAR/FOUO Program, Oct. 2014.
- 11. M. Lichtman, J. H. Reed, "Reinforcement Learning for Reactive Jamming Mitigation," *Journal of Cyber Security and Mobility*, July 2014.

- C. Shahriar, M. La Pan, M. Lichtman, T. Clancy, R. McGwier, R. Tandon,
 S. Sodagari, J. Reed, "PHY-Layer Resiliency in OFDM Communications: A Tutorial," *IEEE Communications Surveys & Tutorials*, Aug. 2014.
- 13. S. Dudley, W. C. Headley, M. Lichtman, E. Imana, X. Ma, M. Abdelbar, A. Padaki, A. Ullah, M. Sohul, T. Yang, J. H. Reed, "Practical Issues for Spectrum Management with Cognitive Radios," *Proceedings of the IEEE*, March 2014.
- 14. M. Lichtman, J. H. Reed, T. C. Clancy, M. Norton, "Vulnerability of LTE to Hostile Interference," *IEEE Global Conference on Signal and Information Processing*, Dec. 2013.
- 15. M. Lichtman, W. C. Headley, J. H. Reed, "Automatic Modulation Classification under IQ Imbalance using Supervised Learning," *IEEE Military Communications Conference (MILCOM)*, Nov. 2013.
- T. C. Clancy, M. Norton, M. Lichtman, "Security Challenges with LTE-Advanced Systems and Military Spectrum," *IEEE Military Communications Conference (MILCOM)*, Nov. 2013.
- 17. M. La Pan, M. Lichtman, T. C. Clancy, R. W. McGwier, "Protecting Physical Layer Synchronization: Mitigating Attacks against OFDM Acquisition," *Global Wireless Summit 2013*, June 2013.

Awards and Achievements

- Invited by DARPA to attend Wait, What? Future Technology Forum and was one of eight "early-career scientists" selected to have lunch and engage in discussion with Secretary of Defense Ash Carter and DARPA Director Arati Prabhakar <pic>.
- Recipient of the AOC Capitol Club Electronic Warfare Scholarship
- Research featured in an MIT Technology Review article
- o "Origins of Innovation" class project won XCaliber Award
- Winner of the *WICAT* Board Meeting Student Poster Contest
- Recipient of the Intelligence Community Center for Academic Excellence (IC-CAE) Scholarship
- Recipient of the Virginia Tech College of Engineering Fellowship
- Recipient of the Pamplin Leader Scholarship
- Recipient of the Bernard Silverman Scholarship

Co-Authored Grant Proposals

Organization/Company	Amount	Solicitation	Title of Proposal
Air Force Research Lab.	\$76,000	BAA-RV-10-03	Robust Satellite Communications under Hostile Interference (Phase I)
Air Force Research Lab.	\$78,000	FOA-RVKV-2013-0001	Robust Satellite Communications under Hostile Interference (Phase II)
QinetiQ North America	\$100,000	N/A	Vulnerabilities of LTE to RF Interference and Spoofing
Total	\$254,000		

Professional Memberships Student Member, Institute for Electrical and Electronics Engineers (IEEE). Student Member, IEEE Communications Society. Student Member, IEEE Signal Processing Society.

Technical Reviewing

Reviewer for:

- Proceedings of the IEEE
- IEEE/ACM Transactions on Networking
- o IEEE Transactions on Mobile Computing
- o IEEE DySPAN
- IEEE MILCOM