Joseph Schlessinger

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EDUCATION	**Massachusetts Institute of Technology**, Cambridge, MA, USA	Aug 2019 – Jun 2021

- M.S. in Technology and Policy
  - Thesis: TBD
  - Adviser: TBD
  - Focus: TBD

United States Military Academy, West Point, New York, USA — Jun 2015 – May 2019

- B.S. in Computer Science
  - Thesis: Twitter Health Metrics
  - Adviser: Dr. Christa Chewar
  - Focus: Social network analysis, advanced data structures, algorithms

- B.S. in Mathematical Sciences with Honors
  - Thesis: Machine Learning in Financial Markets
  - Adviser: Dr. Grover LaPorte
  - Focus: Machine learning, time series analysis, neural networks

- Cumulative GPA: 4.128 / 4.0
- Honor Graduate

RESEARCH EXPERIENCE

Lincoln Laboratory

- Military Research Fellow — Jul 2019 – Jun 2021
  - Project: Causal Inference on Communication Networks
  - Advisors: Dr. Ed Kao and Dr. Steven Smith
  - Focus: Causal inference, potential outcomes, network science

Department of Mathematical Sciences, United States Military Academy

- Undergraduate Research Student — Sep 2017 – May 2018
  - Project: Condorcet Clustering on Sparsified Networks
  - Supervisor: Dr. William Pulleyblank
  - Focus: Integer programming, Condorcet clustering, CPLEX, computational geometry, Delaunay triangulations

Director's Summer Program, National Security Agency

- Summer Research Intern — Jul 2017 – Aug 2017
  - Project: Library of Massively Parallel Number Theoretic Algorithms
  - Focus: Number theory, parallel programming, CUDA, Nvidia GPU framework

Disease Biophysics Group, Harvard University

- Summer Research Intern — Jul 2016 – Aug 2016
  - Project: Creating Hydrophobic, Strong Paper Using Rotary Spun Nanofibers
  - Supervisors: Dr. Kit Parker
  - Focus: Nanofibers, experimental design, rotary jet spinning

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ACADEMIC CONFERENCES

[1] W. Pulleyblank, R. Miller, S. Morse, T. Russell, J. Pleuss, J. Schlessinger and S. Lynch, "Condorcet Clustering with Delaunay Triangulation," in *International Conference on Advances in Social Networks Analysis and Mining*, University of Calgary, Vancouver, CA, Aug 2019. (Pending Review)

[2] M. Bassett, B. Newton, J. Schlessinger, W. Pulleyblank, and J. Roginsky, "Optimal Clustering," in *Northeast Regional Conference on Complex Systems*, Binghamton, New York, USA, May 2018.

[3] B. An, A. Bell, O. Deal, N. Nepa, Z. Riggenbach, J. Schlessinger, and K. Sims, "Nanofiber Paper Airplane: Paper Manufacturing for Optimized Flight," in *ARL/USMA Research Symposium*, Aberdeen, Maryland, USA, Oct 2016.

LEADERSHIP EXPERIENCE

United States Corps of Cadets, West Point, New York, USA

- Executive Officer, India Company, Second Regiment — May 2018 – Dec 2018
  - Deputy commanded 130 cadets, primarily responsible for spread of information and oversight of day-to-day operations

- Honor Non-Commissioned Officer, India Company, Second Regiment   Dec 2017 – May 2018
  - Educated cadets on honorable living and adjudicated honor violations as part of a cadet-led jury

National Ski Patrol, West Point, New York, USA

- Cadet in Charge, Outdoor Emergency Care Training   May 2017 – Mar 2018
  - Designed a medical training curriculum, supervised training, and certified cadets as OEC technicians and OEC instructors

Student Conference on US Affairs, West Point, New York, USA

- Technology and Communications Director   Jan 2017 – Nov 2017
  - Planned and coordinated visual, audio, and other technical support for large intercollegiate US Affairs conference

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SKILLS

Programming Languages: Scala, Python, C, Java, C++, Cuda