

ANA-ANDREEA STOICA

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Research Interests — *Social Networks, Random Graph Theory, Privacy, Machine Learning.*

EDUCATION

Columbia University, New York, NY, USA September, 2018 - present
Ph.D. Candidate, Computer Science Department
Advisor: Associate Professor Augustin Chaintreau

Columbia University, New York, NY, USA September, 2016 - June, 2018
M.S., Computer Science Department GPA: 4.00/4.00
Advisor: Associate Professor Augustin Chaintreau

Princeton University, Princeton, New Jersey, USA September, 2012 - May, 2016
B.A., Mathematics Department GPA: 3.7/4.00
Graduated *magna cum laude*.
Undergraduate Advisor: Professor Emmanuel Abbe
Certificates: *Applied & Computational Mathematics, Applications of Computing*

Selected coursework — *Graduate:* Algorithms, Incentives, and Learning; Privacy and Anonymity; Introduction to Cryptography; Machine Learning; Coding Theory and Random Graphs; Mathematical Analysis of Big Data.

PROFESSIONAL EXPERIENCE

Graduate Research Assistant September, 2016 - present
Current Advisor: Assoc. Prof. Augustin Chaintreau
· Employing random graph techniques in understanding the effect of structural network properties on disparity.

Research Intern February, 2019 - May, 2019
Advisor: Siddhartha Sen
· Developing machine learning algorithms for building a universal data index.

CONFERENCE AND JOURNAL PUBLICATIONS

Ana-Andreea Stoica, Christopher Riederer, and Augustin Chaintreau. "Algorithmic Glass Ceiling in Social Networks: The effects of social recommendations on network diversity." Proceedings of the 2018 World Wide Web Conference. International World Wide Web Conferences Steering Committee, 2018.

Assimakis A. Kattis, Alexander Holiday, **Ana-Andreea Stoica**, and Ioannis G. Kevrekidis. "Modeling epidemics on adaptively evolving networks: A data-mining perspective." *Virulence* 7.2 (2016): 153-162.

PEER-REVIEWED WORKSHOPS

Ana-Andreea Stoica and Augustin Chaintreau. "Hegemony in Social Media and the effect of recommendations." 1st Workshop on Fairness, Accountability, Transparency, Ethics and Society on the Web (FATES on the Web, WWW'19 Companion), companion proceedings of the 2019 World Wide Web Conference. International World Wide Web Conferences Steering Committee, 2019.

Ana-Andreea Stoica and Augustin Chaintreau. "Fairness in the Social Influence Maximization Problem." 1st Workshop on Fairness, Accountability, Transparency, Ethics and Society on the Web (FATES on the Web, WWW'19 Companion), companion proceedings of the 2019 World Wide Web Conference. International World Wide Web Conferences Steering Committee, 2019.

Mechanism Design for Social Good Workshop (MD4SG '18) Poster and presentation session.

Highlights of Algorithms (HALG 2018) Poster and presentation session, Vrije University, Amsterdam, Netherlands. June 4-6th, 2018.

New York Computer Science and Economics Day (NYCE 2017) Poster session, New York University, New York, NY, USA. May 19th, 2017.

Fifth Networking Networking Women Workshop (N² Women) Poster session, City University of New York, New York, NY, USA. October 3rd, 2016.

INVITED TALKS

Computational Social Science Working Group at Columbia University, New York, NY	February, 2019
Second Workshop in Women in Data Science at the Web Conference '18, Lyon, France	April, 2018
Ecole Polytechnique Federale de Lausanne, Lausanne, Switzerland	May, 2018
Cambridge University, Cambridge, UK	May, 2018
Alan Turing Institute, London, UK	May, 2018

TEACHING AND PROFESSIONAL SERVICE

WWW '19 1st FATES Workshop,
SIGIR'19 Workshop on FACTS-IR,
IJCAI '19 Workshop on AI for Social Good

· Program Committee

Introduction to Social Networks
Columbia University, New York, NY

Fall, 2016; Spring 2018

· Teaching Assistant

Cyber 9/12 Student Challenge
Washington D.C.

March 17-18, 2017

· Team leader. Drafted policy proposals for a given international cybersecurity challenge, organized by the Atlantic Council.

Engineering Graduate Student Council
Columbia University, New York, NY

September, 2016 - January, 2017

· Department Representative

Principia: The Princeton Undergraduate Mathematics Journal
Princeton University, Princeton, NJ

April, 2014 - May, 2016

· Academic chair

AWARDS

First Place in Princeton University Mathematical Competition, Team Section	2010
Bronze Medal in International Zhautykov Mathematics Olympiad	2010
Romanian National Mathematics Olympiad, 1 Gold, 2 Silver, and 3 Bronze medals	2007-2012
Diploma of Excellence awarded by Prime Minister of Romania	2008

Programming C, Python, Java, Mathematica, MATLAB

Systems Windows, UNIX, x86

Languages *Native:* Romanian. *Fluent:* English. *Conversational:* Spanish, Turkish

Hobbies Skiing, piano, modern art