

Zoey Chopra

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1249 Island Dr.
Ann Arbor, MI

EDUCATION

M.D./Ph.D. Candidate in Economics, University of Michigan, Ann Arbor, MI

Aug 2018 - Present

Awarded National Institute of Health (NIH)'s Medical Scientist Training Program (MSTP) grant

Bachelor of Arts with Honors, Columbia University, New York, NY

Sep 2014 - May 2018

Double Major in Economics-Mathematics and Biochemistry; Concentration in Classics

John Jay Scholar, Dean's List, National Residence Hall Honorary

Languages: Seven years of Latin study; One year of Attic Greek; Proficient in Japanese and Hindi

Columbia University Parker Prize for Summer Research in Economics

Jun 2017 - Sep 2017

Awarded to five undergraduates by the Columbia University Department of Economics.

ECONOMICS RESEARCH EXPERIENCE

Health Economics Research with Dr. Andy Ryan, Institute for Health Policy and Innovation

May 2019 - Present

Financial Economics Research with Dr. Julien Penasse, Luxembourg Sch. of Finance, University of Luxembourg

Jan 2019 - Present

Health Economics Research with Dr. Sarah Miller, Department of Economics, Ross Business School

Sep 2018 - Present

- Analyzed effects of the Comprehensive Perinatal Services Program (CPSP) in California.

Financial Economics Research with Dr. José Scheinkman, Department of Economics, Columbia University

Jan 2018 - Present

- Explored whether bubbles from financial speculation occur in art markets.
- Created scripts to download and merge Google ngram data as a measure of fame for individual artists.

Behavioral Economics Research with Dr. Benjamin Ho, Department of Economics, Vassar College

Sep 2017 - Present

While in traditional Game Theory models, more information should yield better outcomes, recent literature posits that patients fearing adverse medical outcomes either actively avoid information or respond in excess (overtreatment).

- Created models to understand how access to information can affect behavior towards medical screenings.
- Investigated regression models of regret aversion and anticipatory utility, primarily.

Health Economics Research with Dr. David Chan, Center for Health Policy, Stanford University

Jul 2017 - May 2018

Mapped training to post-residency specialization to grasp behavioral patterns/incentives in medical practice variation.

Summer Investment Analyst, Brown Advisory, New York, NY

Jun 2017 - Sep 2017

- Created econometric, value-based drug pricing models, grounded upon health outcomes like QALYs.
- Modeled companies and industry landscapes within Equity and Fixed Income teams.

Political Economy Research with Dr. Andrew Schotter, Department of Economics, New York University

Jun 2017 - Dec 2017

Modeled political choices/attacks as truels in the context of debates of the 2016 Republican primary campaign trail.

Health Economics Research with Dr. Frank Lichtenberg, Columbia University Business School

Jan 2017 - May 2018

- Created and assessed disembodied growth models via bibliometric regression analysis to investigate the medical effectiveness of biomedical research developments, focused on respiratory diseases ([Honors Thesis project](#)).
- Analyzed different parameters to measure new ways of characterizing disease burden within the SHARE Database.

Political Economy Research with Dr. Elliott Ash, Department of Economics, University of Warwick

May 2016 - Present

- Modeled effects of mandatory retirement ages upon state Supreme Court decisions over the past century.
- Analyzed implications of medical malpractice reform, varying across U.S. states.
- Created scripts to download, merge, and analyze Congressional speeches, collective bargaining agreements.

Urban Economics Research with Dr. Donald Davis, Department of Economics, Columbia University

Jan 2016 - Aug 2016

Ascertained historical, real-estate pricing differentials for New York City to explore drivers urging urbanization.

Research Assistant for Manuscript on Social Equity, London, UK

May 2017 - May 2018

- Co-wrote book with students/scholars/entrepreneurs globally, about social responsibility of wealth-creators.
- Researched economic frameworks to ground manuscript's prescriptions of redistribution and global equality.
- Focused on Motivation Crowding Theory, models of incentivization, and the development of reference income.

DRY LAB RESEARCH EXPERIENCE

Oncology Research with Green Lab, Department of Radiation Oncology, University of Michigan

May 2019 - Present

Neurosurgery Research with Szerlip Lab, Department of Neurosurgery, University of Michigan

Dec 2018 - Present

Laryngology Research with Morrison Lab, Department of Otolaryngology, University of Michigan

Dec 2018 - Present

Cancer Research at Chinnaiyan Lab, Department of Cellular & Molecular Biology, University of Michigan	Nov 2018 - Present
Ophthalmology Research at Hood Lab, Department of Ophthalmic Sciences, Columbia University <ul style="list-style-type: none"> Developed predictive techniques to diagnose glaucoma patients earlier, via visual field, macular, and disc analyses. Analyzed the extent to which multi-colored funduscopy could be used complementarily to existing OCT technology. 	Oct 2015 - Dec 2016
WET LAB RESEARCH EXPERIENCE	
Neurobiology Research at Kelley Lab, Department of Biological Sciences, Columbia University <ul style="list-style-type: none"> Aimed to determine circuit functions of hindbrain neurons that express the androgen receptor in <i>Xenopus laevis</i>. Prepared <i>Xenopus</i> brains and slides; Dyed DTAM and N.IX-X (vocal motor nucleus); Analyzed IHC assays. 	Jan 2016 - May 2017
Stem Cell Research at Snoeck Lab, Department of Immunology, Columbia University Medical Campus <ul style="list-style-type: none"> Modeled development of pulmonary diseases via differentiation of human pluripotent stem cells into lungs. Selected as a Columbia University Medical Center P&S SURF Scholar. Applied pre-existing hPSC model to study and create indicator for Idiopathic Pulmonary Fibrosis via Internal Ribosome Entry Sites (IRES) and Flp-<i>FRT</i> recombination sites. 	Jun 2016 - Sep 2016
Neurobiology Research at Kaufer Lab, Department of Neuroscience and Integrated Biology, UC Berkeley <ul style="list-style-type: none"> Aimed to understand the neurological correlates of social behavior and bias for Sprague-Dawley rats. Set up behavioral assays; Performed statistical analyses of rat movements via Ethovision; Analyzed neural tissue. Found pro-social behavior to be predominantly controlled, like humans, by the anterior cingulate cortex. 	Jun 2015 - Sep 2015
Biochemistry Research at Oda Lab, Children's Hospital Oakland Research Institute, CA <ul style="list-style-type: none"> Aimed to understand folding patterns of lipid-free apolipoprotein A-I (apoA-I), and to create pediatric HDL test. Structurally analyzed apoA-I using FRET and EPR techniques; Created library of mutant proteins for apoA-I probe. Confirmed three major loops of lab's proposed apoA-I tertiary structure – now considered a standard in the field. 	Jun 2013 - Sep 2015
TEACHING EXPERIENCE	
Editor for the Michigan Journal of Medicine (MJM) Led review team for journal submissions for scientific and clinical research within the University of Michigan.	Feb 2019 - Present
Reviewer for the Michigan Journal of Medicine (MJM) Edited journal submissions for scientific and clinical research within the University of Michigan.	Nov 2018 - Feb 2019
Seminar Leader for Symposium, Mugi, Japan Created and taught course on Philosophy of Economics to aspiring, local high school students.	Feb 2016 - May 2018
Teaching Assistant (TA) for Calculus, Chemistry, and Psychology, Columbia University Helped design curriculum; Held weekly office hours and review sessions; Graded problem sets; Mentored students.	Jan 2016 - May 2018
PUBLIC SERVICE	
Vice President, American Medical Association (AMA) Chapter, University of Michigan	Jan 2019 - Present
Ophthalmology Care, Hope Clinic, Ypsilanti, MI Assisted in performing ophthalmic exams for underserved population of the Hope Clinic.	Sep 2018 - Present
Educational Seminar Chair, Health Equity Scholars Program (HESP), University of Michigan	Sep 2018 - Present
Palliative Care, Terence Cardinal Cooke Health Center, New York, NY Assisted nurses in day-to-day duties for residents of the facility; Led journal club for end-of-life residents.	Sep 2016 - May 2017
President, UNICEF Chapter, Columbia University Led chapter in fundraising and awareness campaigns towards children's rights to equity in health and education.	Sep 2015 - May 2018
Executive Board, Liberty in North Korea (LiNK) Chapter, Columbia University Coordinated panel discussions with North Korean refugees and Korean Peninsula scholars regarding human rights.	Sep 2015 - May 2017
Chair of Community Outreach, Red Cross Chapter, Columbia University <ul style="list-style-type: none"> Created campus exhibit regarding ambiguity of International Humanitarian Law, attended by local students. Formulated partnerships to develop Red Cross participation in the local community, i.e. with fire alarm installations. 	Sep 2014 - May 2018
UNIVERSITY of MICHIGAN CAMPUS LEADERSHIP POSITIONS	
Learning Environment Task Force	Nov 2018 - Present
President & Founder, Student Writing Interest Group	Sep 2018 - Present
Admissions Ambassador	Sep 2018 - Present

COLUMBIA UNIVERSITY CAMPUS LEADERSHIP POSITIONS**Committee on Instruction****Sep 2017 - May 2018**

Appointed by Academic Dean to joint faculty-student committee, responsible for evaluating and proposing academic policy changes, including new program and course initiatives, credit and major requirements, and course approvals.

Resident Advisor (RA) for On-Campus Dormitory, Columbia University**Jan 2017 - May 2017**

Responsible for floor of 40 students; On-call weekly, in 24-hour shifts, for entire building of 400 students.

Student Advisory Group for Academic Planning and Administration**Nov 2016 - Sep 2017**

Appointed to represent academic interests of the student body to Academic Dean of Columbia University.

Student Ambassador**Apr 2016 - May 2018**

Worked with Admissions Office to welcome incoming students; Interviewed prospective students.

Academic Awards Committee, Student Council**Sep 2015 - May 2018**

Appointed to decide annual student teaching and book awards for tenured professors.

Chair of Policy Competitions, Columbia Economics Review**Sep 2015 - May 2018**

Developed nationwide Environmental Policy Competition, designed to challenge students to consider economic implications of global, environmental decisions, from the Paris Accords to Alaskan drilling litigation.

Student Consultant, 180 Degrees Consulting**Sep 2015 - May 2016**

Consulted for educational non-profit to facilitate transportation logistics for low-income students to test prep centers.

Columbia University Information Technology**Sep 2015 - Feb 2016**

Worked to ensure faculty and staff could operate classroom technology to foster the best learning environments possible.

Producer, Columbia University Arts Initiative**Sep 2015 - Dec 2015**

Created budget proposals and helped coordinate cast towards Balance – an interactive soundscape.

Executive Board, Columbia Neuroscience Society**Jan 2015 - May 2018**

Collaborated with researchers across Neuroscience, Psychology, and Behavioral Economics to raise awareness to advance the incredible implications of neuro-focused academic study.

Executive Board, Columbia International Relations Council and Association**Jan 2015 - May 2016**

Coordinated national Model United Nations conferences and intra-organizational community events.

Finance Committee, Journal of Global Health**Sep 2014 - May 2016**

Coordinated advertising efforts with local businesses to ensure publication budget for the Journal of Global Health.

SKILLS

Software: STATA, MATLAB, R, Python, Ethovision, Excel, Large Data Regression, Econometric Estimation and Evaluation

Hardware/Lab: CRISPR, EPR, FRET, Confocal Microscopy, Perfusion, Protein Purification, Spin-Labeling, Cryostat, PCR

ATHLETICS & OTHER INTERESTS

Club Tennis, Club Ski & Snowboard, Intramural Volleyball, Intramural Basketball, Intramural Soccer

Sep 2014 - Present

Crossword Puzzles, Musical Soundtracks, Creative Writing