

Cody Austun Coleman

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Education

Stanford University Doctor of Philosophy in Computer Science	Stanford, CA <i>Present</i>
Massachusetts Institute of Technology (MIT) Master of Engineering in Electrical Engineering and Computer Science, 5.0/5.0 Supervisors: Isaac Chuang	Cambridge, MA <i>February 2015</i>
Massachusetts Institute of Technology (MIT) Bachelor of Science in Electrical Engineering and Computer Science, 4.9/5.0 One Year Bernard M. Gordon MIT Engineering Leadership Program	Cambridge, MA <i>June 2013</i>
Study Abroad: University of Cambridge, Gonville & Caius College	<i>June 2012</i>

Experience

Jump Trading, Vendor Data Group <i>Junior Data Scientist</i> <ul style="list-style-type: none">Engineered systems to curate a centralized source of research and reference data for the firm, including Trading, Research, and Technology to Risk, Middle Office and Accounting teamsConstructed frameworks and pipelines to analyze data from a variety of vendors to automatically create and update security master, corporate actions, pricing and entity master dataCommunicated internally and externally to understand needs, identify opportunities, diagnose problems, and maintain reliability	Chicago, IL <i>June 2015–August 2016</i>
Davidson College, DavidsonX and DavidsonNext <i>Educational Technology Consultant</i> <ul style="list-style-type: none">Automated data processing for 5 DavidsonX Massive Open Online Courses (MOOCs) and 64 DavidsonNext blended AP instruction courses	Remote <i>March 2015–June 2015</i>
MIT, Office of Digital Learning and MITx <i>Research Assistant</i> <ul style="list-style-type: none">Investigated the potential for educational platforms to adapt to different learning styles through machine learning techniques in order to improve learning outcomesDeveloped a video response tool for the edX platform that enabled a new level of expressive power in open ended responses	Cambridge, MA <i>February 2013–February 2015</i>
MIT, EECS Department <i>Founder's Journey (6.933) Teaching Assistant</i> <ul style="list-style-type: none">Founded and directed an initiative to help students offset early expenses in evaluating their ideas by awarding monetary grantsMentored students and provided feedback on their ideas in order to hone their entrepreneurial skills	Cambridge, MA <i>January 2013–May 2014</i>
MIT, Global Startup Labs formerly known as AITI <i>Technical Assistant</i> <ul style="list-style-type: none">Taught 32 India university students Ruby on Rails and the fundamentals of web developmentGuided 10 teams as they developed prototypes and pitched to local venture capitalists and accelerators	Bangalore, India <i>June 2013–August 2013</i>
Google, Associate Product Manager (APM) Internship <i>YouTube Analytics Intern</i> <ul style="list-style-type: none">Redesigned existing features and developed new features for YouTube AnalyticsManaged a team of 12 to launch estimated time watched and metric comparisons across the worldCollaborated with numerous teams in YouTube to deal with issues concerning publicity, privacy, accessibility and discovery	Zurich, Switzerland <i>June 2012–August 2012</i>
Google, Building Opportunity in Leader Development (BOLD) Internship <i>Local Search Quality Intern</i> <ul style="list-style-type: none">Programmed tools for large-scale data manipulation and analysis to expedite and improve spam detection in Google PlacesCreated and administered training documents, videos, exercises, and workshops globally for both R and Google BigQuery	Mountain View, CA <i>June 2011–August 2011</i>
MISTI Mexico, Iniciativa OCW <i>Web Developer & Team Representative at el Tecnológico de Monterrey</i> <ul style="list-style-type: none">Engineered a website that mapped MIT online course material to three Mexican universities in order to improve accessibility for students and staff	Mexico City, Mexico <i>June 2010–August 2010</i>

Skills

Programming Languages: Python, C, C++, SQL, Ruby, \LaTeX

Applications: Vi/Vim, Git, tmux, MySQL

Web Development: HTML, CSS, JavaScript, SCSS, CoffeeScript

Operating Systems: Unix, Linux, Redhat, macOS, Windows

Leadership

MIT, Eta Kappa Nu (HKN) Honor Society for EECS

President

Cambridge, MA

May 2012–May 2014

- Managed MIT's top academic EECS students to host several large events and services including tutoring and course reviews

MIT, Member of Undergraduate Student Advisory Group in EECS (USAGE)

Member

Cambridge, MA

August 2011–May 2014

- Led efforts to design and build a new student lounge for EECS undergraduate and masters students

- Worked with EECS students to represent student interests on issues including new degree requirements and research programs

Ameson Chinese Elite Program

MIT Student Ambassador

Beijing, China

July 2011

- Represented MIT in panel discussions about peacekeeping, terrorism, and new energy

MIT, 6.470 Web Programming Competition

Team Leader

Cambridge, MA

January 2011

- Built a resume editor and management system that won Utility, HTML5, and audience choice awards, totaling \$2000 in prizes

Honors

- NSF Graduate Research Fellow

- MIT EECS Paul Penfield Student Service Award

- Tau Beta Pi (TBP) National Engineering Honor Society

- National Society Collegiate Scholar

- MIT Club of Northern New Jersey Scholar

- Stanford EDGE Doctoral Fellow

- Google Patent Award

- IEEE Eta Kappa Nu (HKN) Honor Society

- Google BOLD Immersion Scholar

- Quest Scholar

References

Academia

- Isaac Chuang - ichuang@mit.edu

- Anantha Chandrakasan - anantha@mtl.mit.edu

- Angela Duckworth - aduckworth@characterlab.org

Industry

- Lindsay Tobolik - ltobolik@jumptrading.com

- James Buckney - jbuckney@jumptrading

- Vandana Bharvani - vandanab@google.com

Publications

[1] **Cody A. Coleman**. Identifying and characterizing subpopulations in massive open online courses. Master's thesis, 77 Massachusetts Ave, Cambridge, MA 02139, 2015.

[2] **Cody A. Coleman**, Daniel T. Seaton, and Isaac Chuang. Probabilistic use cases: Discovering behavioral patterns for predicting certification. In *Proceedings of the Second ACM conference on Learning@Scale conference*. ACM, 4 2015.

[3] Andrew D. Ho, Isaac Chuang, Justin Reich, **Cody A. Coleman**, Jacob Whitehill, Curtis G. Northcutt, Joseph J. Williams, John D. Hansen, Glenn Lopez, and Rebecca Petersen. Harvardx and mitx: Two years of open online courses fall 2012-summer 2014. *Available at SSRN 2586847*, 2015.

[4] Yohsuke R. Miyamoto, **Cody A. Coleman**, Joseph J. Williams, Jacob Whitehill, Sergiy O. Nesterko, and Justin Reich. Beyond time-on-task: The relationship between spaced study and certification in MOOCs. *Social Science Research Network*, 1 2015. <http://ssrn.com/abstract=2547799>.

[5] Daniel T Seaton, **Cody A. Coleman**, and Jon P. Daries. MIT institutional research report: Teacher enrollment in MITx open online courses, 1 2015. http://web.mit.edu/ir/mitx/MOOC_teachers_supp_material.pdf.

[6] Daniel T. Seaton, **Cody A. Coleman**, Jon P. Daries, and Isaac Chuang. Enrollment in mitx moocs: Are we educating educators. *Educause Review (February 2015)*, 2015.

[7] Jacob Whitehill, Joseph J. Williams, Glenn Lopez, **Cody A. Coleman**, and Justin Reich. Beyond prediction: First steps toward automatic intervention in mooc student dropout. *Available at SSRN 2611750*, 2015.