

Jeffrey Lancaster

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Professional

Chief Innovation and Technology Strategist for Higher Education

Dell Technologies, 2023

Senior Higher Education Strategist

Dell Technologies, 2020 - 2023

Co-Founder & CTO

Fondo, 2019 - 2022

Freelancer & Advisor

Upperline Code, 2019

Head of Product Development

Decoded, 2015 - 2018

Senior Project Manager

New Water Culture and Mora Water Systems, 2015

Emerging Technologies Coordinator

Science & Engineering Library, Columbia University Libraries, 2011 - 2014

Education

Columbia University, Ph.D., 2006 - 2011

University of Oxford, M.Sc., 2006

Washington University in St. Louis, B.A., B.F.A., 2000 - 2005

Teaching

Research

Bibliography

Conferences, Posters‡, Presentations\$, Panels¶

Awards, Honors, Grants

Columbia University Libraries/Information Services Committees

Columbia University Libraries/Information Services Presentations

Leadership, Activities

Exhibitions

Professional

Chief Innovation and Technology Strategist for Higher Education

Dell Technologies, 2023

- Subject matter expert to support digital transformation in 600+ universities and colleges across 13 states throughout the Northeast and Mid-Atlantic regions.
- Engaged university and college leaders to advance their strategic goals, objectives, and plans for their institution's future transformation, notably in the areas of student success, teaching and learning, IT infrastructure, IT security, and research.
- Strengthened sales teams account presence by forging high value-add relationships with executive-level leadership at institutions of all types and sizes and positioned Dell Technologies as a trusted advisor.
- Generated long-term industry growth through thought-leadership, knowledge of Dell's resources and solutions, and utilization of Dell's support models while carrying a performance quota of \$300M+.
- Represented Dell in industry-specific conferences, tradeshow and events through presentations and keynotes.
- Collected customer insights and transferred market knowledge to cross-functional teams within Dell through professional learning.
- Contributed to Dell's vision, thought leadership, go-to market strategy, marketing, and new offerings in the Higher Education vertical, especially for emerging technologies: AI, Generative AI, Smart Campus, Zero Trust, etc.
- Supported account strategy, marketing, and sales maker development for 50+ account executives and 10+ district managers using industry-relevant news, content, and data.
- Built and maintained a metrics collection tool used for team's compensation calculations; connected internal data for team process and communication optimization.

Senior Higher Education Strategist

Dell Technologies, 2020 - 2023

- See "Chief Innovation and Technology Strategist for Higher Education" above.

Co-Founder & CTO

Fondo, 2019 - 2022

- Co-founded a startup focused on helping young people visualize their paths into the future of work via structured serendipity and exploration
- Led software development of the Fondo platform and guided the product development roadmap

Freelancer & Advisor

Upperline Code, 2019

- Built K-20 computer science curricula for multiple Upperline Code programs, including FinTech Focus (for JP Morgan Chase, Bank of America, Wells Fargo, Morgan Stanley and Goldman Sachs), Google's Computer Science Summer Institute, and CS and the City (for NYC DOE)
- Advised the CEO and leadership team on business development strategy, including the introduction of an enterprise line of business and new content delivery areas

Head of Product Development

Decoded, 2015 - 2018

- Developed and delivered Decoded's suite of educational programs in areas that included code/APIs, data/AI/machine learning, cybersecurity, innovation/lean/agile, blockchain, connected devices/IoT, storytelling, and more. Delivered 250+ sessions in 11 countries and in multiple languages, including English and Spanish
- Developed, documented, and delivered custom learning experiences for Fortune 100 clients across multiple industries, including financial, payments, technology, manufacturing, and more
- Trained freelance facilitators in the content areas above and ensured quality delivery, including feedback loop for continuous quality improvement
- Built internal-facing software tools to benefit client team partners and financial colleagues.
- Built external-facing software tools for use in learning experiences
- Developed key client relationships based on a deep understanding of clients' businesses, including through research-based customer-centered approaches
- Engaged as a thought leader via publication, hosted event presentations, public conference presentations, press interviews, and content creation for company website
- Continuously learned and built practitioner skills across the digital landscape

Senior Project Manager

New Water Culture and Mora Water Systems, 2015

- Managed projects from start to finish as the project owner
- Worked with external stakeholders and service providers to complete project scope, milestones, goals, deliverables, resource allocation, project budget and timing
- Wrote briefings, documentation, papers, project correspondence, etc.
- Ensured project documents were safely archived following project completion

Emerging Technologies Coordinator

Science & Engineering Library, Columbia University Libraries, 2011 - 2014

- Responsible for the planning, implementation, and assessment of ongoing and future technological activities in the Digital Science Center
- Developed strategies to address issues related to technology, research, and education
- Explored new technologies for adoption by the Libraries; built sustainable service models around new technologies where applicable; collaborated with a wide range of stakeholders to

implement new services

- Contributed to the outreach efforts of the Science & Engineering Division to the students, staff, and faculty of our constituent departments; to other units of the Libraries; and to other areas of the University
- Collaboratively planned and executed workshops, trainings, and presentations focusing on information and professional skills
- Managed staff who oversee the workstations in the Digital Science Center; ensured that problems were reported, addressed, and solved; and coordinated with the Libraries IT office to maintain equipment in working order
- Contributed to web, social media, and general online presence of the Digital Science Center and the Science & Engineering Division
- Planned the Innovation & Technology Lab, a hybrid makerspace/hackerspace/co-working space
- Represented Columbia at various national and international conferences related to emerging technologies and acted as a spokesperson for the Science & Engineering Library and Digital Science Center
- Managed and collaborated with library interns and digital center fellows
- Liaison to the Departments of Astronomy, Chemistry, and Physics

Education

Columbia University, Ph.D., 2006 - 2011

Doctor of Philosophy, Chemistry - Columbia University, 2011

Master of Philosophy, Chemistry - Columbia University, 2010

Master of Arts, Chemistry - Columbia University, 2007

University of Oxford, M.Sc., 2006

Master of Science, History of Science, Medicine, and Technology - Christ Church, University of Oxford, 2006

Washington University in St. Louis, B.A., B.F.A., 2000 - 2005

Bachelor of Arts, Chemistry and Art History/Archaeology - Washington University in St. Louis, 2005 - *Summa cum laude*

Bachelor of Fine Arts, Sculpture - Washington University in St. Louis, 2005 - *Magna cum laude*

Spring Semester Abroad - Santa Reparata International School of Art, Florence, Italy, 2002

Italian Language Proficiency - Lorenzo de' Medici Scuola di Lingua, Florence, Italy, 2002

Teaching

Instructor, DEI in Esports, University of New Haven, Spring 2022

Instructor, Writing for Chemists, Columbia University, Spring 2013, Spring 2014

Mentor, Digital Center Fellowship Program, Fall 2012 - present

Staff Assistant, General Chemistry, Columbia University, Fall 2008

Research Mentor

Undergraduate Chemical Engineering, Columbia University, Fall 2008 - present

Summer Research Experience for Undergraduates (REU), Columbia University, Summer 2008

Summer Research Experience for Teachers (RET), Columbia University, Summer 2008, Summer 2009

Teaching Assistant, General Chemistry, Columbia University

Professor Nicholas Turro, Fall 2007

Professor Stacey Brydges, Fall 2006, Spring 2007

Chemistry Tutor, General Chemistry, Spring 2007 - present

Chemistry Academic Mentor, Washington University in St. Louis, Fall 2001 - Spring 2005

One-on-One Individual Mentoring and Group Sessions

Art @ the Beach, Louisville, KY., Summer 1999 - 2003

Research

Adjunct Associate Research Scientist, Department of Chemistry, Columbia University, 2014

Sloan Foundation grant for development of a Citation Style Language Editor, Project Manager, 2012 - 2013

Chemistry and Chemical Engineering Research with Professors Nicholas Turro and Jeffrey Koberstein, Columbia University, Fall 2007 - Fall 2014

Chemistry Research with Professor Richard Loomis, Washington University in St. Louis, Fall 2004 - Spring 2005

Studio Assistant for Professor Ronald Leax, Fall 2004 - Spring 2005

Bibliography

["Security in Generative AI"](#) ([audio](#) | [video](#))

Lancaster, J.R.; Pulsipher, D.

Embracing Digital Transformation Podcast, Episode #160, September 19, 2023.

["GenAI Use Cases"](#) ([audio](#) | [video](#))

Lancaster, J.R.; Pulsipher, D.

Embracing Digital Transformation Podcast, Episode #154, August 28, 2023.

["Practical Generative AI"](#) ([audio](#) | [video](#) | [pdf](#))

Lancaster, J.R.; Pulsipher, D.

Embracing Digital Transformation Podcast, Episode #152, August 21, 2023.

["Understanding Generative AI"](#) ([audio](#) | [video](#))

Lancaster, J.R.; Pulsipher, D.

Embracing Digital Transformation Podcast, Episode #151, August 17, 2023.

["Generative AI for Organizations"](#)

Lancaster, J.R.; Robyak, A.

Dell Technologies Whitepaper, 2023.

["Liberal Arts Education and What Really Prepares Students for the Future"](#) (podcast)

Selingo, J.; Horn, M.; Becerra, I.B.; El-Rewini, H.; Mariel, M.; Lancaster, J.R.

Future U Podcast, June 14, 2023.

["Data Management for Research"](#)

Lancaster, J.R.; Robyak, A.

Dell Technologies Whitepaper, 2021.

["Let The Crisis Go to Waste Already"](#)

Lancaster, J.R.

Educause Review, October 11, 2021.

["For student success, institutions need better data"](#) (podcast)

Williams, J.; Mathews, M.; Lancaster, J.R.

EdScoop, August 10, 2021.

["Never Let a Crisis Go to Waste"](#)

Lancaster, J.R.

Educause Review, January 11, 2021.

["4 Mindsets Every Leader Should Bring to Work"](#)

Lancaster, J.R.

Conscious Company Media, September 19, 2018.

["The Amazing Utility of Blockchain: From Mining Crypto for Charities to Tracking E-Coli"](#)

Glavin, W.

CommPRO, August 23, 2018.

["The Ultimate Game of Thrones Dataset: and an Interactive Game of Thrones Narrative Chart"](#)

Lancaster, J.R.

medium.com, May 20, 2017.

[Turro, Nicholas J.](#)

Lancaster, J.R.

in *The Encyclopedia of Luminescence*, published May 16, 2017.

["Electroless Deposition of Nickel on Photografted Polymeric Microscale Patterns"](#)

Carroll, G.T.; Lancaster, J.R.; Turro, N.J.; Koberstein, J.T.; Mammana, A.

Macromol. Rapid Commun., 2017, 38, 1600564.

["Seeing is Believing"](#)

Lancaster, J.R.

blog.decoded.com, July 29, 2016.

["Unanticipated Opportunities from Closed Libraries: Pivoting for the Future"](#)

Crocamo, J.; Lancaster, J.R.; Ransom, E.H.

In Holder, S.; Lannon, A. (Eds.) *Difficult Decisions: Closing and Merging Academic Libraries*, ACRL, Chicago, Illinois, 2015.

["Featured Library: Columbia University's Science & Engineering Library Uses 3D Printing as Outreach to Students, Faculty, and Staff"](#)

Ransom, E.H.; Lancaster, J.R.

Computing Reviews News 2014, May 6, 2014.

["3D Printing in Libraries Is Not About 3D Printing"](#)

Lancaster, J.R.

Strategic Library 2014, 3, 1.

["1H NMR Study of Hydrogen Abstraction in Model Compound Mimics of Polymers"](#)

Lancaster, J.R.; Smilowitz, R.; Turro, N.J.; Koberstein, J.T.

Photochem. Photobiol., 2013, Nov 21.

["Functionalization of organic surfaces"](#)

Lancaster, J.R.; Turro, N.J.; Koberstein, J.T.

US 8507572, August 13, 2013.

["Kinetics and Mechanisms of Radical-Based Branching/Cross-Linking Reactions in Preformed Polymers Induced by Benzophenone and Bis-Benzophenone Photoinitiators"](#)

Carbone, N.D.; Ene, M.; Lancaster, J.R.; Koberstein, J.T.
Macromolecules, 2013, 46(14), 5434-5444.

["Heterotrifunctional molecules and methods for the synthesis of dendrimeric materials"](#)

Lancaster, J.R.; Koberstein, J.T.; Turro, N.J.
US Patent 9,006,345, Issued: October 18, 2012.

["A 'Toolkit' of Small Molecules for Polymer Assembly and Post-Synthetic Modification Using 'Click' and Photoactive Chemistries"](#)

Lancaster, J.R.
Dissertation. Columbia University, 2011.

"Core-crosslinked micelles of preformed block copolymers by an exogenous bifunctional crosslinker"

Lancaster, J.R.; Koberstein, J.T.; Turro, N.J.
Polymer Preprints, 2011, 52(1).

["Looking back on Lindau - one year on"](#)

Lancaster, J.R.
in *10th Anniversary of the Foundation Lindau Nobelprizewinners Meetings at Lake Constance*,
2010.

["Adiabatic Ring Opening in Tethered Naphthalenes and Anthracene Cycloadducts"](#)

Sundaresan, A.K.; Jockusch, S.; Li, Y.; Lancaster, J.R.; Banik, S.; Zimmerman, P.; Blackwell, J.M.;
Bristol, R.; and Turro, N.J.
Photochem. Photobio. Sci., 2010, 9, 1082.

["Photopatterned 'Click' Functional Polymer Surfaces"](#)

Lancaster, J.R.; Giller, C.; Park, E.J.; Wagenaar, T.; Rabolt, J.; Turro, N.J.; and Koberstein, J.T.
Polymer Preprints, 2010, 51, 66.

["Nobel Reactions: Catalysts and Collaborations with Richard Schrock"](#)

Nature Video
2009 (September).

["Looking Back on Lindau"](#)

Lancaster, J.R.
Nature Chemistry, 2009, 1, 587.

["Fundamental Study of Optical Threshold Layer Approach Towards Double Exposure Lithography"](#)

Gu, X; Berro, A.J.; Cho, Y.; Jen, K.; Lee, S.; Nagai, T.; Ogata, T.; Durand, W.J.; Sundaresan, A.;
Lancaster, J.R.; Jockusch, S.; Zimmerman, P.; Turro, N.J.; and Willson, C.G.
Proc. of the SPIE, 2009, 7273, 72731C.

["Partnership Helps City Schools Boost Science Grades"](#)

Oh, Clare
The Record, 2009 (May 1), 34(4), 5.

"Toward the Design of a Sequential Two Photon Photoacid Generator for Double Exposure Photolithography"

O'Connor, N.; Berro, A.; Lancaster, J.R.; Gu, X.; Jockusch, S.; Nagai, T.; Ogawa, T.; Lee, S.; Zimmerman, P.; Willson, C.G.; and Turro, N.J.
Chem. Mater. 2008, 20, 7374.

"Non-radiative deactivation of singlet oxygen (1O_2) by cubane and its derivatives"

Lancaster, J.R.; Màrti, A.A.; López-Gejo, J.; Jockusch, S.; O'Connor, N.; and Turro, N.J.
Org. Lett. 2008, 10, 5509.

"Towards a Universal Method to Pattern Metals on a Polymer"

Lancaster, J.R.; Jahani, J.; Carroll, G.T.; Chen, Y.; Turro, N.J.; and Koberstein, J.T.
Chem. Mater. 2008, 20, 6583.

"The Solvay Conferences and the History of Physical Chemistry"

Lancaster, J.R.
Dissertation, University of Oxford, 2006.

"Experimental and theoretical investigations of the He•••I₂ rovibronic spectra in the I₂ B-X, 20-0 region"

Ray, S.E.; McCoy, A.B.; Glennon, J.J.; Darr, J.P.; Fesser, E.J.; Lancaster, J.R.; Loomis, R.A.
J. Chem. Phys. 2006, 125(16), 164313: 1-9.

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in *History of Latin American Literatures*, eds. Mario J. Valdes and Djelal Kadir, Oxford, 2004.

Washington University in St. Louis Viewbook, 2004 - 2005

In(ter)vention - a catalogue of student artwork, Fall 2004

School of Art Admissions Brochure, Washington University in St. Louis, 2003 - 2004, 2004 - 2005

Streitfeld, Rachel, "Miller elected SU President." *Student Life*, Mar. 28, 2003.

Schoenherr, Neil, "Ensuring Fairness." *Record*, Aug. 30, 2002.

"New SU Constitution Approved." *Student Life*, Nov. 1, 2002.

"Tips from a Pro." *Record*, Dec. 15, 2002.

Dorrough, Bernell, "SU Passes 3 Academic Resolutions Wednesday." *Student Life*, Mar. 2, 2001.

McGinn, Susan Killenberg, "Obituary, Margo Trump, 59." *Record*, Sept. 28, 2001.

"Campus Briefs." *Student Life*, Oct. 26, 2001.

Conferences, Posters[‡], Presentations[§], Panels[¶]

Penn State Tech Pros Conference, June 8, 2023

Keynote: "More with less: Harnessing Human-Computer Collaboration for the Future of IT"[§]

CUNY IT Conference, December 2, 2022

"AI "in", AI "on", AI "for"^{¶§}

Penn State Tech Pros Conference, June 9, 2022

Keynote: "What's next? 🌐"[§]

New Jersey Library Association Conference, June 3, 2022

"Embracing the Journey: Career Paths Don't Have to Make Sense"[§]

CUNY IT Conference, December 2, 2021

"A New Digital Literacy for the Post-Pandemic World"[§]

Educause Annual Conference, October 28, 2021

["Solving Big Problems: How Industry Partnership Can Transform the Research Enterprise"](#)[¶]

SUNY Technology Conference, June 23, 2021

"Defining a New Digital Literacy for the Post-Pandemic World: Preparing Students for a Future that Doesn't Yet Exist"[§]

Educause ELI Conference, May 20, 2021

["Building a Diverse STEM Pipeline: Project Immersion at HBCUs and HSIs"](#)[¶]

CUNY IT Conference, December 4, 2020

"Eating Our Own Dog Food: Future-Proofing Dell Technologies and VMWare"[§]

Educause Annual Conference, October 28, 2020

["Defining a New Digital Literacy for the Post-Pandemic World"](#)[§]

Future of Storytelling (FoST) 2018, Snug Harbor, NY, 2018

["Man or Machine \(Learning\): Demystifying the next generation of narrative tools"](#)[§]

Social Media Week, April 27, 2018

["Blockchain and The Decentralized Web"](#)[§]

Future of Storytelling (FoST) 2017, Snug Harbor, NY, 2017

"Build Your Own Chat Bot"[§]

Social Media Week 2017, New York, NY, 2017

"Decoding 🙌😭🐱😊🤖: Building Machines That Know How Humans Feel"[§]

South by Southwest Interactive 2017, Austin, TX, 2017

"Code is Dead. Long Live Code."[§]

Internet Week 2016, New York, NY, May 17, 2016

"Connected, but Not Protected"[§]

Internet Week 2016, New York, NY, May 17, 2016

"Open Source Your Innovation"[§]

Social Media Week 2016, New York, NY, 2016

"Finding Customers With Open Data, APIs, Machine Learning"[§]

Future of Storytelling (FoST) 2015, Snug Harbor, NY, 2015

["Decoding Sensory Media"](#)[§]

Internet Week 2015, New York, NY, May 21, 2015

"Demystifying Wearables"[§]

South by Southwest Interactive 2015, Austin, TX, 2015

["Big Data Startups Should Hire Librarians"](#)[§]

[Conference Notes](#)

Freedman Center for Digital Scholarship Colloquium: Pedagogy and Practice, Case Western Reserve University, Cleveland, OH, 2014

["The Digital Centers at Columbia University: Strategizing Across Multiple Centers for Diverse Disciplines"](#)[§]

ACS National Meeting, San Francisco, CA, 2014

["Libraries as Hubs for Emerging Technologies"](#)[§]

ACS Summer Institute, Washington, D.C., 2014

["The Emerging Roles of Librarians"](#)[§]

CLIR Post-Doctoral Fellows, Bryn Mawr College, Bryn Mawr, PA, 2014

["On Science Research Data"](#)[§]

Columbia Business School Green Business Summit, Columbia University, 2014

"Panel Discussion: Evolution of 3D Printing", Moderator[¶]

Coalition for Networked Information, St. Louis, MO, 2014

[Conference Notes](#)

Research Impact: A Discussion from Institutional, Economic, and Researcher Perspectives, Baltimore, MD, 2014

["On Research Output and Research Impact"](#)[§]

[Conference Notes](#)

Columbia University Libraries Symposium, Columbia University, 2014

["Panel Discussion: Leaders Everywhere"](#), Moderator[¶]

[Video on Youtube](#)

[Conference Notes](#)

South by Southwest edu 2014 and South by Southwest Interactive 2014, Austin, TX, 2014

[SXSW edu Conference Notes](#)

[SXSW Interactive Conference Notes](#)

Proquest Quantum Continuing Education Program, Webinar, 2014

["How Libraries Can Support the Social Side of Research"](#)[§]

Organizer, CUriosity³ Series on Art and Science, Columbia University, 2013 - 2014[¶]

Charleston Conference, Charleston, SC, 2013

["The Social Side of Research and Opportunities for Librarians"](#)[§]

[Conference Notes](#)

Columbia Organization of Rising Entrepreneurs, Columbia University 2013

"Panel Discussion: 3D Printing and Entrepreneurship", Moderator[¶]

[Session Notes](#)

Mozilla Festival, Ravensbourne, London, UK, 2013

[Conference Notes](#)

ACS Summer Institute, Washington, D.C., 2013

"The Emerging Roles of Libraries"[§]

Association of College & Research Libraries Annual Conference, Indianapolis, IN, 2013

["Building The Future: Leveraging Facilities Projects as Platforms for Organizational Change"](#)[§]

[Conference Notes](#)

New York Technical Services Librarians Spring Meeting, New York, NY, 2013

["Emerging Technologies: Outlook, Problems & Opportunities"](#)[§]

Beyond the PDF 2, Amsterdam, NL, 2013

"Citation Style Language (CSL) Editor"[§]

[Conference Notes](#)

South by Southwest Interactive 2013, Austin, TX, 2013

[Conference Notes](#)

Metropolitan New York Library Council Annual Meeting, New York, NY, 2013

["science@columbia: Fostering a Scientific Community in the Archipelago"](#)[§]

["On the Future of Libraries: How? not What?"](#)[§]

New Media in Education: Bits to Breakthroughs, Columbia University, New York, NY, 2013

["New and Emerging Technologies to Support Research in the 21st Century"](#)[§]

[Video on Youtube](#)

Science Online London 2012, Wellcome Collection Conference Center, London, UK, 2012

New Media Consortium Annual Meeting, Boston, MA, 2012

241st ACS National Meeting & Exposition, Anaheim, CA, 2011

"Core-crosslinked micelles of preformed block copolymers by an exogenous bisfunctional crosslinker"[‡]

Science Online London 2010, British Library, London, UK, 2010

"Unconference Session: Connecting to the User"[§]

Graduate Fellows in K-12 Education (GK12) Conference, Washington, D.C., 2010

"Technology for Learning Communities: Success and Challenges (Leveraging Free Web Resources)"[§]

American Chemical Society National Meeting, Excellence in Polymer Graduate Research Symposium, San Francisco, CA, 2010

"Photopatterned 'Click' Functionalized Polymer Surfaces"[§]

Gordon Research Conference on the Science of Adhesion, Colby-Sawyer College, New London, NH, 2009

"Universal Patterning of 'Click' Functionality on Polymer Surfaces"[‡]

59th Meeting of Nobel Laureates at Lindau, Lindau, Germany, 2009

ACS 13th IACIS International Conference on Surface and Colloid Science and 83rd ACS Colloid and Surface Science Symposium, Columbia University, New York, NY, 2009

European Polymer Conference, "*Click*" - *Methods in Polymer and Materials Science*, Gargnano, Italy, 2009

"Photopatterned 'Click' Functionalized Polymer Surfaces"[§]

Graduate Fellows in K-12 Education (GK12) Conference, Washington, D.C., 2009

"Strategies for Connecting Contemporary Research and technology to Inquiry-Based Learning in an Urban Middle School with Extension to an International Collaboration"[‡]

Mid-Atlantic Regional Meeting of the American Chemical Society (MARM), *Chemistry and Health*, Queensborough Community College, Queens, NY, 2008

"Non-Radiative Deactivation of Singlet Oxygen (1O_2) by Cubane and Its Derivatives"[‡]

Intel International Science and Engineering Fair, Detroit, MI, 2000

"Interface between Ceramic Substrate and Metal Oxide Coating: Two Year Study"[‡]

Intel International Science and Engineering Fair, Philadelphia, PA, 1999

"The Effect of Metal Oxides on a Clay Body"[‡]

Awards, Honors, Grants

Junior Librarian Award, Fall 2012, Spring 2014

National Science Foundation GK-12 Website Award, March 2010

American Chemical Society Excellence in Polymer Graduate Research, March 2010

National Science Foundation GK-12 Learning through Environmental and Ecological Field Studies (LEEFS) Fellow, Fall 2008 - Spring 2010

Middle School 88, Peter Rouget School, Brooklyn, NY

Punta Cana International School, Puntacana, Dominican Republic

The Cathedral School, Santo Domingo, Dominican Republic

Miller Award for Graduate Teaching, 2009

Integrative Graduate Education and Research Traineeship (IGERT) Fellow, Summer 2008 - present

Young Researcher, Annual Meeting of Nobel Laureates in Lindau, Germany, 2009

Columbia University Nominee to Attend the Annual Meeting of Nobel Laureates in Lindau, Germany, 2008, 2009

National Science Foundation Graduate Research Fellowship Honorable Mention, 2007, Honorable Mention, 2008

Faculty Fellow, Department of Chemistry, Columbia University, 2006 - 2011

Ethan A.H. Shepley Award for Leadership, Scholarship, and Service, Washington University in St. Louis, 2005

Outstanding Academic Mentor Award, Student Educational Services, Washington University in St. Louis, 2005

Hypercube Award, Department of Chemistry, Washington University in St. Louis, 2005

School of Art Service Award, School of Art, Washington University in St. Louis, 2005

Eliot Honors, Washington University in St. Louis, 2005

Florence J. Moog Fellowship for Chemistry, Washington University in St. Louis, 2000 - 2005

Washington University in St. Louis School of Art Dean's List, Fall 2000 - Spring 2005

National Merit Scholarship, 2000 - 2004

Israelow Fellowship for Research, 2004

Secor Award in Sculpture, 2004

Outstanding School Council Officer, Student Union, Washington University in St. Louis, 2004

Commission, University City Sculpture Series, University City, MO., 2002

Justin X. Carroll MVP of the South Forty, Washington University in St. Louis, 2000

Eagle Scout, Boy Scouts of America

Columbia University Libraries/Information Services Committees

Wordpress Working Group, 2013 - 2014

Research Output Outreach Program Planning Group, 2013 - 2014

Digital Center Advisory Group, 2012 - 2014

Digital Center Working Group, 2011 - 2014

Chair 2013 - 2014

E-Resources Interfaces Working Group, 2011 - 2014

Spectrum Working Group (CLIO, CLIO Beta), 2011 - 2014

Columbia University Libraries/Information Services Presentations

CUL/IS Fall Services Forum, 2013

"SEAS Instruction and Outreach"

Teagle Summer Institute, 2013

[Data, Maps, RSS, 3D Printing, Open Knowledge](#)

Columbia Committee on Library and Information Professionals, 2011

"Updates from the Digital Science Center"

CUL/IS Spring Assessment Forum, 2013

[Assessment in the Science & Engineering Libraries: You Can Do It, Too!](#)

RewirED: Conversations about the intersection of technology and teaching, 2012

"New Technologies for Research"

Undergraduate Writing Program, Fall 2012

Teagle Summer Institute, 2012

"Finding, Managing, Alerting"

Personal Digital Archiving Day, 2012

"New Technologies in Personal Archiving"

Information Technology Leadership Council, 2012

"Columbia University Libraries Digital Centers"

Undergraduate Writing Program, Spring 2012

Columbia Committee on Library and Information Professionals, 2011

"Science & Engineering Library: 10 Months and Counting"

Leadership, Activities

Ron McNair Curriculum Integration to Interactively Engage Students (CITIES) Program, 2007 - 2008
Materials Research Science and Engineering Center, Columbia University
Enterprise, Business and Technology High School, Brooklyn, NY
Progress High School, Brooklyn, NY

Social Coordinator, Summer Teaching Assistant Training Program, Columbia University, 2007

Member of Alumni and Parents Admission Program, Washington University in St. Louis, 2007 - present

Member of the New York Academy of Sciences, 2006 - 2007

Master of the Punts, Christ Church, University of Oxford, 2005 - 2006

Member, Graduate Common Room, Christ Church, University of Oxford, 2005 - 2006

Captain, Oxford University Ultimate Frisbee Team B, 2005 - 2006

Contrabears, Washington University in St. Louis Men's Ultimate Frisbee, 2004 - 2005

Programming and Collections Committee for Steinberg Gallery, Washington University in St. Louis,
2002 - 2005

Commencement Committee, Washington University in St. Louis, 2004 - 2005

Chancellor's Task Force on Undergraduate Grievance Procedures, Washington University in St. Louis,
2002 - 2003

Sesquicentennial Planning Committee, Washington University in St. Louis, 2002 - 2003

Coach, Plainview Swim and Dive Team, Louisville, KY
Head Coach, 2004
Assistant Head Coach, 2002 - 2003

Art School Peer Advisor, 2004 - 2005

Kresge Challenge Coordination Committee, Washington University in St. Louis, 2004

In(ter)vention Project Coordinator, 2003 - 2004

Italian Interpreter - International Science and Engineering Fair, Louisville, KY., 2002

Student Union - undergraduate student government of Washington University in St. Louis
President, Art School Council, Fall 2003 - Spring 2004
Attorney General, Summer 2002 - Spring 2003
Gateway Student Leadership Conference, Fall 2002

Election Commission, Spring 2001, Freshman 2001, Fall 2001, Freshman 2002, Fall 2002, Spring 2003

Executive Council, Fall 2001, Fall 2002, Spring 2003

Pre-Orientation Counselor, 'Leading WashU Style', Summer 2001, Summer 2002

Academic Affairs Committee Co-Chair Fall 2001

Art School Senator, Fall 2000 - December 2001

Outing Club, Washington University in St. Louis

Secretary, Spring 2003 - Fall 2004

'Wilderness Project' Pre-Orientation Leader, Summer 2003

Exhibitions

The Indexical Print - LSA Residential College, University of Michigan, Ann Arbor, MI., 2020

Bachelor of Fine Arts Exhibition - Mildred Lane Kemper Art Museum, St. Louis, MO., May 2004

Within/Without: artists working with the collection - Washington University Gallery of Art, St. Louis, MO., April 2004

Righty Tightly, Lefty Loosey - Artdimensions, Kastle Gallery, St. Louis, MO., December 2003

From Conception to Completion - Washington University in St. Louis, St. Louis, MO., November 2003

Operation Pandemic Joy - Washington University in St. Louis, St. Louis, MO., September 2003

University City Public Sculpture Series - University City Public Library, University City, MO., April 2003

Take with Food - Mossa Gallery, St. Louis, MO., November 2002

Santa Reparata Open House - Santa Reparata International School of Art, Florence, Italy, April 2002