lauren m. chambers

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education

2021 – Pres.	**University of California, Berkeley** Ph.D. in Information Science (School of Information) *Advised by Prof. Deirdre Mulligan*
2013 – 2017	**Yale University** B.S. in Astrophysics and African American Studies

Theses: *A Different Kind of Dark Energy: Placing Race and Gender in Physics;*
Understanding Gas-Phase Ammonia (NH_3) Chemistry in Proto-Planetary Disks

Honors: Phi Beta Kappa, *magna cum laude,* graduated with distinction in both majors, departmental prizes in both majors

research experience

Berkeley School of Information   *Doctoral Research*   *2021 – Pres.*
"From Public Interest Technology to Advocacy Technology: The Ecosystem of 'Tech for Good' within Civil Society"

- Investigating how 'public interest technology' (PIT) manifests when embedded within mission-driven sociopolitical advocacy organizations: a trend I term *advocacy technology.*
- Seeking to understand what it means to "do PIT" within advocacy settings, and how these explicitly sociotechnical workers navigate and influence both policy and technological change in the 21st century.
- Arguing that a greater focus on technological personnel, processes, and changes within civil society and not-for-profit work is critical for modern understandings of advocacy, technology, and policy.

Center for Democracy & Technology   *Summer Internship*   *2023*
- Convening and facilitating roundtable of public interest technologists and CTOs working in civil society
- Using the bigbang software package to explore inclusive practices among Internet standards-developing organizations, including IETF and W3C

Yale African American Studies Dept.   *Undergraduate Thesis*   *2016 – 2017*
"A Different Kind of Dark Energy: Placing Race and Gender in Physics" | Advisor: Hazel Carby
- Analyzing physical and astronomical theory through the lens of critical race theory and feminist theory in an effort to understand the effects of a racist-sexist society on scientific ways of knowing

Harvard Center for Astrophysics & **Yale Astronomy Dept.**   *Undergraduate Thesis*   *2016 – 2017*
"Understanding Gas-Phase Ammonia (NH_3) Chemistry in Proto-Planetary Disks" | Advisors: Karin Öberg & Hector Arce
- Optimizing a numerical astrochemical model to investigate NH_3/H_2O ratios in proto-planetary disks

publications & papers

Peer-Reviewed Articles & Conference Proceedings

8. **Lauren M. Chambers**. *Roles for Technologists in Social Change: A Taxonomy of Professional Work Activities & Goals in Advocacy Technology.* [in prep]

7. **Lauren M. Chambers**, Diag Davenport. *Blueprinting the Public Interest Technology Clinic: A Berkeley Case Study and Beyond.* [in prep]

6. **Lauren M. Chambers**, Dan Bateyko, Jared Katzman. *Mapping Funding Landscapes of Civil Society and Public Interest Technologies: Trends, Strategies, and Traps from Capitalism and Beyond.* [in prep]

5. **Lauren M. Chambers.** 2025. *Beyond Big Tech: Advocacy Technologists within Mission-Driven Civil Society Organizations.* ACM Conference on Computer-Supported Cooperate Work (ACM CSCW '25), Bergen, Norway. DOI: 10.1145/3757559 (pending upload to ACM DL)

4. Colin Doyle, Melissa Garcia Alvarez, Pelle Tracey, Gabriel Grill, Cedric Whitney, **Lauren M. Chambers.** 2024. *Reparations of the Horse? Algorithmic Reparation and Overspecialized Remedies.* Big Data & Society, Vol. 11, Issue 3, DOI: 10.1177/20539517241270670

3. Amina A. Abdu, **Lauren M. Chambers**, Deirdre K. Mulligan, and Abigail Z. Jacobs. 2024. *Algorithmic Transparency and Participation through the Handoff Lens: Lessons Learned from the U.S. Census Bureau's Adoption of Differential Privacy.* ACM Conference on Fairness, Accountability, and Transparency (ACM FAccT '24), Rio de Janeiro, Brazil. DOI: 10.1145/3630106.3658962

2. **Lauren M. Chambers.** 2019. *A Different Kind of Dark Energy: Evidence for Placing Race and Gender in Physics.* Astro2020: Decadal Survey on Astronomy and Astrophysics, APC white papers, no. 162; *Bulletin of the American Astronomical Society*, Vol. 51, Issue 7, id. 162, Bibcode: 2019BAAS...51g.162C

1. C. De Grandi, Z. Smithline, P. Reeves, L. Goetz, N. Barbour, E. Hairston, J. Guo, F. Muraina, J. Bervell, **Lauren M. Chambers,** H. Caines, A. Miranker & S.. Mochrie. 2019. *STEM Climate survey developed through student–faculty collaboration.* Teaching in Higher Education, Vol. 26, Issue 1, DOI: 10.1080/13562517.2019.1636219

Workshop Papers & Preprints
*equal contribution

5. **Lauren M. Chambers**, Dan Bateyko, Jared Katzman. *Mapping Funding Landscapes Of Civil Society And Public Interest Technologies: Voids, Trends, And Stakes.* Privacy Law Scholars Conference, Los Angeles, CA (May 2025)

4. Mallory Knodel, Mallika Balakrishnan, **Lauren M. Chambers.** *Shaping a Profession, Building a Community: Integrating Public Interest Technologists into Civil Society.* (May 2025)

3. Roderic Crooks, Uriel Serrano, … **Lauren M. Chambers**, et al. *Critical Connections: Datafication and Community Activism.* Datafication and Community Activism Workshop, Irvine, CA (April 2024) (essay)

2. Amina Abdu*, **Lauren M. Chambers***, Abigail Z. Jacobs, Deirdre K. Mulligan. *Transparency, Technocracy, and Trust in Participatory Algorithmic Governance: Lessons Learned from the US Census' Implementation of Differential Privacy.* Privacy Law Scholars Conference, Boulder, CO (June 2023) (PDF)

1. Amina Abdu*, **Lauren M. Chambers***, Abigail Z. Jacobs, Deirdre K. Mulligan. *The Limits of (Algorithmic) Transparency: Lessons Learned from the US Census' Implementation of Differential Privacy.* Yale Information Society Project's *Data (Re)Makes the World* Workshop, New Haven, CT (March 2023)

💼 professional experience

University of California, Berkeley, School of Information, Berkeley, CA

2025– Present   *"Public Policy Data Lab" (INFO 290) Peer Advisor & Researcher*
- Providing students with feedback on project management, data analysis, data visualization, and more
- Conducting observations of class dynamics and activities to inform research on public interest technology clinics

2024 – Present   *Python Bootcamp Designer & Instructor*
- Designing and teaching summer workshop for incoming PhD and Master's students, including recorded lessons and labs totaling 24 hours of content. Taught topics from programming basics to object-oriented programming.

Jan – May 2024   *"Social Issues of Information" (INFO 203) Graduate Student Instructor*
- Curating course readings, assembling course syllabi, designing assignments, promoting an inclusive classroom
- Planning and leading lectures on social harms and information technology
- Mentoring and advising students on technical, research, and professional skills

American Civil Liberties Union of Massachusetts, Boston, MA

2021 – Present   Technology for Liberty Consultant
2020 – 2021   Staff Technologist
2019 – 2020   Technology Fellow
- Promotion to permanent staff technologist (first to hold role) after less than a year for exceptional performance
- Advancing the Technology for Liberty Project in promoting synergy between new technology and civil rights
    - Consulting on and [writing](#) about how the latest technological research affects algorithmic governance
- Supporting advocacy around responsible technology, racial justice, criminal law reform, government accountability, and other civil rights issues by using data to inform citizens and enable accountability about the effects of litigation, legislation, and political leadership
    - Exploring, analyzing, and visualizing government datasets with R
    - Developing [interactive web interfaces](#) for public data visualizations in R Shiny, HTML, CSS, & Javascript
    - Evaluating civil rights concerns during the COVID-19 pandemic: [data.aclum.org/covid-19/](#)
    - Engaging the public in ACLU work and public interest technology through talks, [blogs](#), and [tweets](#)
- Updating and maintaining the Data for Justice server and website: [data.aclum.org](#)

Space Telescope Science Institute, Baltimore, MD

2018 – 2019   Research and Instrument Analyst II
2017 – 2018   Research and Instrument Analyst I
- Promotion received for superior performance during first year
- Supporting the James Webb Space Telescope mission in preparation for launch and commissioning in 2021
    - Developing interactive software tools in Python using engineering best practices
    - Writing procedures for and participating in team commissioning operational rehearsals
    - Enhancing existing simulator software to generate higher-fidelity commissioning images
    - Analyzing results of fine guidance sensor (FGS) flight software simulations
- Deputy Technical Lead for JWST Quicklook (observatory performance trending and analysis application)
    - Managing collaborative software development with [GitHub](#); designing web app in Python Django
- Developing Jupyter notebook tutorials with the Community Software Initiative

⚿ h o n o r s & a w a r d s

2023 – Pres.	**National Science Foundation Graduate Research Fellowship**
2023 – Pres.	**Ford Foundation Predoctoral Fellowship** *(final cohort of fellows)*
2024 – Pres.	**Berkeley Institute for the Study of Societal Issues**, Affiliated Graduate Student
Mar. 2025	Berkeley School of Information **Outstanding Graduate Student Instructor Award**
Jun. 2024	Honorable Mention, **ACM FAccT Diversity, Equity, & Inclusion Scholarship**
Jun. 2024	**ACM FAccT Doctoral Colloquium** participant
Mar. 2024	**Berkeley Institute for Research on Labor & Employment (IRLE),** Graduate Research Award ($5,000)
2023 – 2024	**Berkeley Empirical Legal Studies (BELS) Fellowship**, Center for the Study of Law & Society
2021 – 2023	**Berkeley Fellowship**, *"awarded to outstanding applicants to doctoral programs in all fields"*
2020 – 2023	**Harvard Berkman Klein Center for Internet & Society**, Affiliate
2021 – 2022	**I School Graduate Scholar Program,** for *"leadership in diversity, equity, and inclusion"*
Nov. 2020	**Boston Bar Association President's Award**, for involvement in *CPCS vs. Chief Justice of the Trial Court* which advocated on behalf of incarcerated individuals in Massachusetts prisons & jails during COVID-19
Aug. 2018	**American Astronomical Society Education & Professional Development Grant** Awardee, in support of the Know Your Power Workshop at the 2019 AAS Winter Conference
Apr. 2018	**STScI Team Achievement Award**, *"for organization of the workshop 'Concrete Steps to Make your Institution More Inclusive'"*
May 2017	**Phi Beta Kappa,** Alpha chapter of Connecticut

May 2017	**George Beckwith Prize**, *"to the undergraduate most proficient in some branch of astronomy."*
May 2017	**William Pickens Prize**, *"for an outstanding senior essay in the field of African American Studies."*
2015 – 2017	**Edward A. Bouchet-Robertson Fellowship,** *"to increase the number of minority students and others with a demonstrated commitment to eradicating racial disparities who will pursue PhDs"*
Jan. 2017	**Chambliss Outstanding Student Poster Presentation Award,** AAS Winter Conference 2017
Summer 2016	**Harvard-Smithsonian Banneker-Aztlán Institute** for astronomers of color, Core Student ([program](#))
Aug. 2015	**NASA Goddard John Mather Nobel Scholar**
2013	**National Achievement** Scholar; **National Merit** Scholarship Finalist

✿ a d d i t i o n a l   s k i l l s

Software Development & Data Analysis:

- Python (including pandas, matplotlib, NumPy, Astropy, SciPy, PyQt, Django, scikit-learn, Jupyter notebooks; specific coursework in applied machine learning, astronomical research methods, and astrostatistics)
- R (including dplyr, ggplot, leaflet, shiny, plotly)
- git (GitHub & GitLab)
- Unix/Bash
- HTML, CSS, Javascript, Wordpress
- LabVIEW
- Scrum software development
- Continuous integration (Travis/Jenkins/GitLab CI)
- Server management with Apache
- MAXQDA

General Computer:

- Microsoft Office
- iWork
- G Suite
- LaTeX / Overleaf
- Atlassian collaboration tools (Jira, Confluence, Sourcetree)

Language:

- Spanish (intermediate speaking, reading, and writing)
- French (intermediate reading, basic speaking and writing)

♣ w o r k s h o p   d e s i g n   &   f a c i l i t a t i o n

Jun. 2025	**"Public Interest Technology (PIT) Clinics as Applied Sociotechnical Pedagogy" Tutorial,** ACM FAccT *Presented hybrid tutorial about designing service learning 'clinics' for CS/data science students* ([website](#))
Apr. 2025	**"Emerging Practices in Participatory AI Design in Public Sector Innovation" Workshop,** ACM CHI *Wrote call for papers; reviewed abstracts; contributed to hybrid workshop design* ([website](#))
Nov. 2023	**"IYKYK: Black Studies in Dialogue with STS" Open Panel Co-Organizer,** 4S Conference *Wrote call for papers; reviewed abstracts; hosted 8 presenters & facilitated discussion in virtual panel*
2021 – 2022	**"Effective Data Visualization" Organizer**, Boston University Spark! Lab ([slides](#))
Nov. 2019	"**Drag v. AI" Organizer**, Boston Public Library *Collaborating with the Algorithmic Justice League; Exploring drag makeup as resistance to facial analysis "cistems;" Presenting on local ACLU political advocacy.*
2018 – 2019	"**Know Your Power" Organizer**, 2019 Winter American Astronomical Soc. (AAS) Conference *Designing, organizing, and facilitating a panel; Examining what power participants hold, at all career stages, to improve institutions; Funded by the AAS Education Committee; Featured on [astrobites](#)*
Jan. 2019	**"Build a Website in 60 Minutes or Less" Facilitator**, 2019 Winter AAS Conference
Jan. 2019	"**Using Python's astropy for Astronomical Data Analysis" Facilitator**, 2019 Winter AAS Conference
2017 – 2019	**"Concrete Steps to Make Your Workplace More Inclusive" Organizer**, STScI & 2018 AAS Conference

☞ m e n t o r s h i p   &   c o m m u n i t y   i n v o l v e m e n t

Service to the Discipline (Information Science)

2024 – Pres.	**Berkeley Algorithmic Fairness & Opacity Working Group (AFOG),** Co-organizer

2020 – Pres.	**Coding it Forward Civic Digital Fellowship,** Mentor *Advising undergraduate fellows on professionalism and the landscape of civic technology careers*
Apr. 2025	**"Life After College: Technology, Ethics, Society & Grad School" Panelist**, *Georgetown University*
2020 – 2021	"**Police in Politics" Project Advisor**, Boston University Spark! Lab *Advising data science projects around policing with Boston University students as ACLU representative*
Mar. 2021	**"A Look Into the Near Future: Opportunities in Public Interest Technology" Panelist**, *U. Penn*
Dec. 2020	**Mentoring Roundtable**, 2020 NeurIPS Women in Machine Learning Workshop *Advising early-career women in computer science about work within non-profit organizations*
Sep. 2020	**Mentoring Circle**, 2020 Virtual Grace Hopper Conference *Advising early-career women in tech on "How To Adult"* (bit.ly/how-to-adult)
May 2020	**Mentor**, MIT COVID-19 Datathon, *Advising projects related to COVID-19, social disparities, & policy*

Service to the University

2021 – Pres.	**Berkeley I School PhD Applicant Feedback Program,** Volunteer *Providing detailed feedback on 4-6 underrepresented prospective PhDs' application materials each year*
2022 – 2024	**Berkeley I School Diversity, Equity, Inclusion, Belonging, and Justice Working Group,** Student Rep
2021 – 2024	**Berkeley I School PhD Applicant Feedback Program,** Co-Organizer, *Coordinating student volunteers*
2023 – 2024	**Technical Consulting Fellow,** Berkeley Social Science Data Laboratory (D-Lab)
2023 – 2024	**Berkeley I School Dean Search Committee,** Student Representative *Reviewed & interviewed candidates alongside university leadership; successfully recruited Eric T. Meyer*
Oct. 2022	**Judge,** Berkeley InfoCamp 2022:"Tech-Ethics" Ideathon
2016 – 2017	**First-year Counselor**, Yale College Dean's Office *Competitive leadership role providing academic, professional, social, & emotional support for first years*
2015 – 2017	**Yale Admissions STEM Likely Team**, *Advising prospective astrophysics students about STEM at Yale*
2015 – 2016	**Science Tour Guide**, Yale Admissions Office

Service to the Discipline (Astronomy & Physics)

Oct. 2021	**"Dear Undergrad: Transition from Undergraduate to Graduate Student" Panelist**, Black in Physics *Sharing insights on choosing/starting a PhD program, as an ex-astrophysicist & Black woman (*recording*)*
2019	**Local Organizing Committee (LOC) Chair**, Inclusive Astronomy 2 Conference
2018 – 2019	**Diversity and Inclusion Working Group Member**, STScI Office of the Director
2018 – 2019	**Social Justice Reading Group Organizer**, STScI
2015 – 2016	**Science, Technology, and Research Scholars (STARS) Peer Mentor,** Yale College Dean's Office *Advising and mentoring underrepresented first years in STEM (gender & racial minorities)*
2015 – 2017	**Yale Physics Department Climate & Diversity Committee**, Undergraduate Representative
2014 – 2016	**Yale Women in Physics Club**, Secretary

Extracurricular Projects

2023 – Pres.	**Berkeley International & Area Studies (ORIAS) Speakers Bureau,** K-12 & College Speaker
Mar. 2022	**Palestine Trek,** *Political solidarity coalition of Berkeley/Stanford grad & law students in the West Bank*
2014 – 2017	**Racial and Ethnic Openness Club**, *Undergraduate discussion group exploring multiracial identity*
2014 – 2016	**Yale Undergraduate Aerospace Association**, *Designing & constructing two telescopes and software*

💬 p u b l i c b l o g s & r e p o r t s

"Exploring Inclusive Language Adoption in Internet Standards," *Center for Democracy & Tech.*, Oct. 2, 2023, Blog.

"More Of The Same: Unpacking The 2022 Boston Police Budget," *Data For Justice,* May 6, 2021, Blog.

"A Mayor's Roadmap To Curb Boston Police Overtime," *Data For Justice,* April 14, 2021, Blog.

"How To Programmatically Create Dozens Of Wordpress Pages To Catalogue Thousands Of Documents," *Python In Plain English* and *Data For Justice*, March 11, 2021, [Blog](#).

"Clearview, Cameras, And Karen: Newly Released Documents Expose Facial Recognition Technologies Used Across Massachusetts," *Data For Justice,* March 1, 2021, [Blog](#).

"Data Show COVID-19 Out of Control Across MA Prisons & Jails," *Data for Justice,* December 22, 2020, [Blog](#).

"Boston Police Department Court Overtime," *Data for Justice,* November 16, 2020, [Report](#).

"Bias all the way down: Research shows domino effect when humans use face recognition algorithms," *Privacy SOS,* September 22, 2020, [Blog](#).

"Wear a mask: Federal study finds COVID-19 masks fool face recognition," *Privacy SOS,* August 28, 2020, [Blog](#).

"Break up with BRIC: Unpacking the Boston Regional Intelligence Ctr. budget," *Data for Justice,* July 22, 2020, [Blog](#).

"Unpacking the Boston Police budget," *Data for Justice,* June 5, 2020, [Blog](#).

"Internet deserts prevent remote learning during COVID-19," *Data for Justice,* May 13, 2020, [Blog](#).

"Incarcerated and in danger: COVID-19 in Massachusetts prisons & jails," *Data for Justice,* April 15, 2020, [Blog](#).

"Data show COVID-19 is hitting essential workers and people of color hardest," *Data for Justice,* April 7, 2020, [Blog](#).

"Five fast facts from a federal study of demographic bias in facial recognition," *Privacy SOS,* February 3, 2020, [Blog](#).

↻ posters & presentations

Public Interest Technology (PIT) Clinics as Applied Sociotechnical Pedagogy
- *Talk:*   May. 2025, Berkeley Teaching and Learning Conference ([website](#))

The "Dark Side" of AI: Technological Oppression in the Modern Era *(Berkeley ORIAS Speakers Bureau)*
- *K-12 Talk:*   Apr. 2025, Freedom High School, 11th & 12th grade Peace & Conflict Studies
- *Invited Talk:*   Apr. 2025, *Global Issues / Current World Problems* class at Berkeley City College
- *K-12 Talk:*   May 2024, Making Waves Academy, 11th & 12th grade AP Computer Science Principles
- *Invited Talk:*   May 2024, *Global Issues / Current World Problems* class at Berkeley City College
- *K-12 Talk:*   May 2024, Oakland High School, 10th grade world history
- *K-12 Talk:*   Mar. 2024, Developing Virtue Secondary School, 9th & 10th grade boys, 6th-12th grade girls

Advocacy Technologists: An Interview Study of Tech Experts in Nonprofits & Civil Society
- *Talk:*   Apr. 2025, Berkeley Computer Science Algorithms, Data, & Society (ADS) Reading Group
- *Talk:*   Mar. 2025, Berkeley School of Information PhD Research Reception
- *Talk:*   Feb. 2025, Berkeley AI & Society Community Mixer

What Can Data Do for Advocacy? Learning from Public Interest Technologists
- *Talk:*   Nov. 2024, Data for Black Lives Conference ([website](#))

Disrupting Overpowered AI: Facial Recognition and Beyond
- *Invited Talk:*   Apr. 2024, *Data, Justice, & Society* class at UCLA

Limits of (Algorithmic) Transparency: Lessons Learned from the US Census' Implementation of Differential Privacy
- *Panel:*   March 2023, Yale Law Info. Society Project *Data (Re)Makes the World* Workshop ([recording](#))

Tech Storytelling for Oppositionists and Others
- *Keynote:*   May 2022, Code4Lib Conference ([recording](#))

Technology for Liberty: Advocating For (and With) Responsible Tech in Massachusetts
- *Invited Talk:*   Aug. 2024, NSF ALL-SPICE Alliance data justice seminar
- *Invited Talk:*   July 2021, Coding it Forward summer fellowship talk series

- *Invited Talk:*   Dec. 2020, Harvard Women in Technology + Allies speaker series
- *Invited Talk:*   Nov. 2020, *[Impactful](#)* Social Impact Technology community speaker series
- *Invited Talk:*   Sep. 2020, Stanford Public Interest Technology Lab fall speaker series
- *Invited Talk:*   Sep. 2020, Davidson College Math & CS Department Colloquium ([recording](#))
- *Invited Talk:*   July 2020, *Race, Science, & Society* class at University of Maryland, Baltimore County

Banning Government Face Surveillance in Massachusetts
- *Talk:*   Feb. 2022, Mechanism Design 4 Social Good (MD4SG) Algorithms, Law & Policy Working Group
- *Talk:*   Jan. 2021, *Algorithms and Society* class at the University of Michigan
- *Invited Talk:*   Sep. 2020, *AI and the Law* class at Boston College
- *Talk:*   July 2020, RightsCon ([recording](#))
- *Invited Talk:*   Apr. 2020, *Urban Science for Social Good* class at MIT
- *Talk:*   Nov. 2019, Drag v. AI Workshop ([event video](#))

From Astrophysics to the ACLU: Physics, Data, and Justice
- *Invited Talk:*   Apr. 2021, Notre Dame Physics Department Colloquium

Public Interest Technology: Using Data & Technology for Good
- *Invited Talk:*   Feb. 2021, Harvard Model Congress seminar

A Different Kind of Dark Energy: Placing Race and Gender in Physics
- *Invited Talk:*   Sep. 2020, Davidson College Physics Department Colloquium
- *Talk:*   Sep. 2018, (dot) Astronomy X Conference ([recording](#))
- *Talk:*   Apr. 2017, Yale Mellon-Bouchet Fellowship Senior Symposium
- *Talk:*   Apr. 2017, Yale Astronomy Senior Thesis Colloquium
- *Talk:*   Apr. 2017, Yale Undergraduate Ethnic Studies Colloquium
- *Talk:*   Apr. 2017, Yale African American Studies Senior Thesis Colloquium
- *Talk:*   Nov. 2016, Timothy Dwight College Mellon Forum

Unpacking the Boston Regional Intelligence Center (BRIC) Budget
- *Testimony:*   July 2020, Boston City Council Public Safety Committee Hearing ([recording](#))

Unpacking the Boston Police Budget
- *Invited Talk:*   Aug. 2020, Boston Women in Machine Learning & Data Science Meetup
- *Talk:*   July 2020, ACLU of Massachusetts Webinar on Police Accountability
- *Testimony:*   June 2020, Boston City Council FY21 Budgetary Hearing ([recording](#))

Using Data to Support Civil Liberties Advocacy During the COVID-19 Pandemic
- *Talk:*   July 2020, Coding it Forward Summer Fellowship Talk Series
- *Talk:*   Apr. 2020, ACLU Nationwide Staff Convening *(1,100+ in attendance on Zoom)*
- *Talk:*   Apr. 2020, ACLU Nationwide Webinar on Race & COVID-19

A More Perfect Deployment: Where the ACLU Meets AI
- *Talk:*   Mar. 2020, Harvard Center for Research on Computation and Society Workshop on AI for Social Impact

Preparing for JWST Commissioning, Calibration, and Science with the Multi-Instrument Ramp Generator (MIRaGe)
- *Poster:* Jan. 2019, 233rd American Astronomical Society Winter Conference ([PDF](#))

The Legacy of Black Physicists at Yale
- *Talk:*   May 2017, Yale Afro-American Cultural Center History Keepers Project Symposium

Understanding Ammonia Chemistry in Protoplanetary Disks
- *Talk:*   Apr. 2017, Yale Astronomy Senior Thesis Colloquium
- *Poster:* Jan. 2017, 229th American Astronomical Society Winter Conference ([PDF])
- *Poster:* Oct. 2016, National Society of Black Physicists Conference, Fermilab
- *Talk:*   Sep. 2016, Mellon Mays Northeastern Regional Undergraduate Conference, Wellesley College
- *Talk:*   Sep. 2016, Yale Astronomy Department Fall 2016 Undergraduate Kick-Off
- *Poster:* Sep. 2016, Yale Undergraduate Research Symposium
- *Talk:*   Aug. 2016, Banneker Institute Symposium, Harvard-Smithsonian Center for Astrophysics ([recording])

Design of a High-Purity Germanium Compton Spectrometer for the DM-Ice Dark Matter Search
- *Talk:*   May 2016, Yale Wright Laboratory
- *Talk:*   Mar. 2016, Mellon Regional Writing and Research Symposium, Yale University

Modularized Software Control of the RIMAS Instrument for Rapid-Response Gamma Ray Burst Observations
- *Poster:* Aug. 2015, NASA Goddard Space Flight Center Summer Student Poster Session ([PDF])

Characterization of the GaAsSb Photocathode with the Micro-Mott Electron Polarimeter
- *Poster:* Aug. 2013, Jefferson Lab Summer Student Poster Session
- *Talk*:   May 2013, Virginia Governor's School for Science & Technology Senior Symposium

🏛 p r o f e s s i o n a l   m e m b e r s h i p s

2024 – Pres.	Association of Computing Machinery (ACM)
2022 – Pres.	Society for Social Studies of Science (4S)
2017 – 2019	American Astronomical Society (AAS)
2018 – 2019	Society for the Advancement of Chicanos and Native Americans in STEM (SACNAS)
2016 – 2017	National Society of Black Physicists (NSBP)
2016 – 2017	American Association for the Advancement of Science (AAAS)
2015 – 2017	American Physical Society (APS)