

Mariel Pettee

Physicist, AI researcher, and artist
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Positions

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| UNIVERSITY OF WISCONSIN–MADISON Assistant Professor of Physics & Bernice Durand Faculty Fellow | 2025 - Now |
| FLATIRON INSTITUTE & POLYMATHIC AI Guest Researcher | 2022 - Now |
| LAWRENCE BERKELEY NATIONAL LABORATORY Chamberlain Postdoctoral Fellow | 2022 - 2025 |

Education

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| YALE UNIVERSITY PhD in Physics | 2021 |
| UNIVERSITY OF CAMBRIDGE (TRINITY COLLEGE) MASt in Physics; Lt. Charles H. Fiske III Harvard-Cambridge Scholar | 2015 |
| HARVARD UNIVERSITY AB in Physics & Mathematics (<i>Cum Laude, High Honors</i>); Minor in Dramatic Arts | 2014 |

Selected Publications

[Full list](#) of papers on my Google scholar page. (**Note:** ▷ indicates alphabetical author ordering.)

2025

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| Multimodal Datasets with Controllable Mutual Information R. Hashmani, G. Merz, H. Qu, M. Pettee , K. Cranmer. | arXiv:2510.21686 |
| A Practical Guide to Unbinned Unfolding ▷ F. Canelli, K. Cormier, A. Cudd, D. Gillberg, R. G. Huang, W. Jin, S. Lee, V. Mikuni, L. Miller, B. Nachman, J. Pan, T. Pani, M. Pettee (editor) , Y. Song, F. Torales Acosta. | EPJC arXiv:2507.09582 |
| What's In Your Field? Mapping Scientific Research with Knowledge Graphs A. Das, N. Lourie, S. Golkar, M. Pettee . | arXiv:2503.09894 |
| Invisible Strings: Revealing Latent Dancer-to-Dancer Interactions with GNNs L. Zerkowski, Z. Wang, I. Vidrin, M. Pettee . | ICCC arXiv:2503.04816 |
| Dyads: Artist-Centric, AI-Generated Dance Duets Z. Wang, L. Zerkowski, I. Vidrin, M. Pettee . | arXiv:2503.03954 |

2024

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| A Simultaneous Unbinned Differential Cross Section Measurement of 24 Z+jets Kinematic Observables with the ATLAS Detector ATLAS Collaboration (Contact Editor). | Phys.Rev.Lett. arXiv:2405.20041 |
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2023

- Evidence of the VH, $H \rightarrow \tau\tau$ process with the ATLAS detector in Run 2
ATLAS Collaboration (**Contact Editor**). [Phys.Lett.B](#)
[arXiv:2312.02394](#)
- xVal: A Continuous Number Encoding for Large Language Models
S. Golkar & **M. Pettee**, M. Eickenberg, A. Bietti, M. Cranmer, G. Krawezik, F. Lanusse,
M. McCabe, R. Ohana, L. Parker, B. Régalo-Saint Blancard, T. Tesileanu, K. Cho, S. Ho. [NeurIPS AI4Sci.](#)
[arXiv:2310.02989](#)
- Weakly-Supervised Anomaly Detection in the Milky Way
M. Pettee, S. Thanvantri, B. Nachman, D. Shih, M. R. Buckley, J. H. Collins. [MNRAS](#)
[arXiv:2305.03761](#)
- Learning Likelihood Ratios with Neural Network Classifiers
S. Rizvi, **M. Pettee**, B. Nachman. [JHEP](#)
[arXiv:2305.10500](#)
- Fast Point Cloud Generation with Diffusion Models in High Energy Physics
V. Mikuni, **M. Pettee**, B. Nachman. [Phys.Rev.D](#)
[arXiv:2304.01266](#)
- Heterogeneous GNN for Identifying Hadronically Decayed Taus at the HL-LHC
▷ A. Huang, X. Ju, J. Lyons, D. Murnane, **M. Pettee**, L. Reed. [JINST](#)
[arXiv:2301.00501](#)

2022

- Symmetry Group Equivariant Architectures for Physics
▷ A. Bogatskiy, S. Ganguly, T. Kipf, R. Kondor, D. W. Miller, D. Murnane,
J. T. Offermann, **M. Pettee (co-editor)**, P. Shanahan, C. Shimmin, S. Thais. [Snowmass](#)
[arXiv:2203.06153](#)
- Point Cloud Deep Learning Methods for Pion Reconstruction in ATLAS
ATLAS Collaboration (**co-editor**). [ATLAS PUB Note](#)
- PirouNet: Creating Dance through Artist-Centric Deep Learning
M. Papillon, **M. Pettee**, N. Miolane. (**Best Paper Award**) [EAI ArtsIT](#)
[arXiv:2207.12126](#)
- Intentional Choreography with Semi-Supervised Recurrent VAEs
M. Papillon, **M. Pettee**, N. Miolane. [NeurIPS ML4CD](#)
[arXiv:2209.10010](#)
- Anomaly Detection Under Coordinate Transformations
▷ G. Kasieczka, R. Mastandrea, V. Mikuni, B. Nachman, **M. Pettee**, D. Shih. [arXiv:2209.06225](#)

2021

- Interdisciplinary Machine Learning for Particle Physics
M. Pettee. Yale University. [PhD Thesis](#)

2020

- Choreo-Graph: Learning Latent Graph Representations of the Dancing Body
M. Pettee, S. Miret, S. Majumdar, M. Nassar. [NeurIPS ML4CD](#)

2019

- Beyond Imitation: Generative and Variational Choreography via ML
M. Pettee, C. Shimmin, D. Duhaime, I. Vidrin. [ICCC](#)
[arXiv:1907.05297](#)
- Expected Performance of the ATLAS Detector at the HL-LHC
The ATLAS Collaboration (**co-editor**). [ATLAS PUB Note](#)

Invited Talks

Department Colloquia

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| ARGONNE NATIONAL LABORATORY, Physics Division | 2025 |
| UNIVERSITY OF WISCONSIN–MADISON, Physics Department | 2025 |
| GEORGIA TECH, Physics Department | 2025 |
| SANTA CLARA UNIVERSITY, Physics Department | 2025 |
| CARLETON UNIVERSITY, Physics Department | 2024 |
| SMITH COLLEGE, Physics Department | 2024 |
| BARD COLLEGE, Physics Department | 2024 |
| UNIVERSITY OF ALABAMA, Physics Department | 2022 |
| UNIVERSITY OF ALABAMA, Theatre & Dance Department | 2022 |
| SEATTLE UNIVERSITY, Physics Department | 2021 |

Research Seminars

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| YALE UNIVERSITY, Physics x Data Science Seminar | 2025 |
| FIRSTPRINCIPLES, Research Seminar | 2025 |
| ARGONNE NATIONAL LABORATORY, HEP Theory Seminar | 2024 |
| SLAC, AI Seminar | 2024 |
| UC BERKELEY, Bakar Inst. of Digital Materials for the Planet Seminar | 2024 |
| LAWRENCE BERKELEY NATIONAL LAB, Physics Research Progress Meeting | 2024 |
| IBM RESEARCH, Zurich | 2023 |
| UNIVERSITY OF CHICAGO, Data Science Institute & James Franck Institute Seminar | 2023 |
| RUTGERS UNIVERSITY, High-Energy Physics Theory Seminar | 2023 |
| SLAC, AI Seminar | 2022 |
| UC IRVINE, Physics & Astronomy Machine Learning Seminar | 2022 |
| IMPERIAL COLLEGE LONDON, DataLearning Working Group Seminar | 2022 |
| AMHERST COLLEGE, AI in the Liberal Arts Seminar | 2022 |
| CORNELL UNIVERSITY, Laboratory for Elementary Particle Physics Journal Club | 2022 |
| UC BERKELEY, Berkeley Institute for Data Science ML + Science Forum | 2021 |
| UNIVERSITY OF TENNESSEE, HEP Seminar | 2021 |
| FLATIRON INSTITUTE, Center for Computational Astrophysics ML Forum | 2021 |

Conference & Workshop Talks

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| Science at the Convergence of AI and Exascale Computing (Keynote), <i>Paris, France</i> | 2026 |
| Lepton-Photon (Keynote), <i>Madison, WI</i> | 2025 |
| AI for Science Summit, <i>Lawrence Berkeley National Laboratory</i> | 2024 |
| Foundation Models for Science Mini-Workshop, <i>CERN</i> | 2024 |

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| NASA Science Mission Directorate AI Workshop, <i>Huntsville, AL</i> | 2024 |
| 1st Large Language Models in Physics Symposium, <i>DESY, Hamburg</i> | 2024 |
| AI-Driven Discovery in Physics & Astrophysics (Keynote), <i>U. of Tokyo</i> | 2024 |
| ML for HEP Workshop, <i>KEK, Japan</i> | 2024 |
| IAIFI Summer Workshop, <i>MIT</i> | 2024 |
| ATLAS Standard Model Workshop, <i>Ljubljana</i> | 2024 |
| APS April Meeting, <i>Minneapolis, MN</i> | 2023 |
| Hammers & Nails, <i>Ascona, Switzerland</i> | 2023 |
| KITP Workshop on Data-Driven Galaxy Evolution, <i>Flatiron CCA</i> | 2023 |

Arts & Interdisciplinary Talks

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| Munich Conservatory, Germany | 2025 |
| School of the Art Inst. of Chicago | 2024 |
| Pratt Institute, Brooklyn, NY | 2024 |
| Creativity in the Age of AI Symposium, Foothill College | 2024 |
| DanceHack Workshop, Mills College | 2023 |
| Ballet Des Moines, IA | 2022 |
| Kinetech Arts, San Francisco, CA | 2022 |
| Kinetech Arts Open Lab Talk, San Francisco, CA | 2020 |
| Conference for Research on Choreographic Interfaces, Brown U. | 2020 |

Contributed Talks

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| ML4Jets, Caltech, Pasadena, CA | 2025 |
| France-Berkeley PHYSTAT Conference on Unfolding, Sorbonne Université, Paris | 2024 |
| Flatiron-Wide Machine Learning Meeting , Flatiron Institute, New York, NY | 2023 |
| Inter-experiment Machine Learning Workshop, CERN, Geneva | 2022 |
| APS April Meeting, New York, NY | 2022 |
| Strange Loop Conference , St. Louis, MO | 2021 |
| NeurIPS Workshop on ML for Creativity and Design, Vancouver, Canada | 2020 |
| ATLAS Tau & HLeptons Workshop, Online | 2020 |
| US ATLAS Workshop, UMass Amherst, MA | 2019 |
| ATLAS Tau & HLeptons Workshop, Prague, Czech Republic | 2019 |
| International Conference on Computational Creativity, UNC Charlotte, NC | 2019 |
| US LHC Users Association Meeting, Fermilab, Batavia, IL | 2018 |
| ATLAS Machine Learning Workshop, CERN, Geneva | 2018 |
| US ATLAS Workshop, U. of Pittsburgh, PA | 2018 |
| ATLAS P&P Physics Plenary, CERN, Geneva | 2018 |
| ATLAS TDAQ Week, CERN, Geneva | 2018 |

Awards

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| Bernice Durand Faculty Fellowship, <i>University of Wisconsin–Madison</i> | 2025 |
| DOE Mission Science Allocation Award, <i>NERSC</i> | 2023 |
| <ul style="list-style-type: none"> • 120,000 GPU hours • Title: “Multidisciplinary AI Models for Science” | |
| Owen Chamberlain Postdoctoral Fellowship, <i>Lawrence Berkeley National Lab</i> | 2021 |
| Lightning Round Talk Winner, <i>US LHC Users Association</i> | 2018 |
| Women’s Faculty Forum Seed Grant, <i>Yale University</i> | 2018 |
| Winner, Windy City Physics Slam, <i>ICHEP</i> | 2016 |
| Distinguished Poster Award (Top 20 out of 500), <i>ICHEP</i> | 2016 |
| Leigh Page Prize, <i>Yale University</i> | 2015 |
| Honorable Mention, <i>NSF Graduate Research Fellowship</i> | 2015 |
| Harvard-Cambridge Scholarship, <i>Harvard University</i> | 2014 |
| <ul style="list-style-type: none"> • Full tuition for a master’s program at Cambridge | |
| Julia Shaffner Memorial Prize, <i>Harvard University</i> | 2014 |
| <ul style="list-style-type: none"> • Outstanding woman in science | |
| President’s Challenge Finalist, <i>The Harvard Innovation Lab</i> | 2013 |
| 15 Most Interesting Seniors, <i>The Harvard Crimson</i> | 2013 |
| Judges’ Award for Acting, <i>International Student Drama Festival</i> | 2012 |
| Certificate of Distinction in Teaching, <i>Harvard University</i> | 2012 |
| Caroline Isenberg Fellowship, <i>Harvard University</i> | 2012 |
| Elizabeth Cary Agassiz Fellowship, <i>Harvard University</i> | 2012 |
| Best Lead Actress in a Play, <i>Harvard Theater Award</i> | 2011 |

Press

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| Viewing the Standard Model with unprecedented detail through the lens of AI <i>Berkeley Lab Physical Sciences News</i> | 2024 |
| ATLAS measures rare Higgs boson interaction with tau leptons , <i>ATLAS Briefing</i> | 2023 |
| “Scientists Begin Building AI for Scientific Discovery Using Tech Behind ChatGPT” | 2023 |
| <ul style="list-style-type: none"> • Simons Foundation Press Release • Berkeley Lab Article | |
| Interviewee on the Cognicast podcast | 2022 |
| <ul style="list-style-type: none"> • A discussion of my research trajectory across AI, physics, and art • Episode webpage • Listen on Apple Podcasts | |
| Mariel Pettee successfully defends PhD thesis , <i>Yale Physics</i> | 2021 |
| Advice to Women in STEM: Mariel Pettee , <i>Yale Scientific Magazine</i> | 2020 |
| Feature on Yale University’s Instagram page | 2019 |

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| Featured on Women+ Art AI | 2019 |
| Scientists Battle for Physics Slam Crown, <i>PBS Chicago</i> | 2016 |
| 15 Most Interesting Seniors: Mariel N. Pettee, <i>The Harvard Crimson</i> | 2013 |

Teaching Experience

Graduate Courses

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| PHYSICS 805: Research Methods for Machine Learning & Physics, <i>UW-Madison</i> | 2025 |
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Guest Lectures

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| CS 839: THEORETICAL FOUNDATIONS OF DEEP LEARNING, <i>UW-Madison</i> | 2026 |
| THE LANGUAGE OF MOVEMENT, <i>Amherst College</i> | 2023 |
| GRADUATE-LEVEL MACHINE LEARNING FOR PHYSICS, <i>U. of Alabama</i> | 2021 |

Teaching Assistant Experience

Note: ▷ indicates courses for which I was the sole TA.

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| ▷ PHYSICS 115: The Physics of Dance, <i>Yale University</i> | 2016 - 2018 |
| ▷ AMERICAN STUDIES 349: Technologies for Movement Research, <i>Yale University</i> | 2018 |
| PHYSICS 171: University Physics for the Life Sciences, <i>Yale University</i> | 2017 |
| PHYSICS 205L: Modern Physical Measurement, <i>Yale University</i> | 2016 |
| PHYSICS 165L: General Physics Laboratory, <i>Yale University</i> | 2015 |
| ▷ MATH 121: Linear Algebra and Applications, <i>Harvard University</i> | 2012 - 2013 |
| MATH 110: Vector Space Methods for Differential Equations, <i>Harvard University</i> | 2013 |

Graduate-level Training on Scientific Teaching

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| PHYSICS 530: Theory and Practice of Scientific Teaching for Physical Scientists, <i>Yale</i> | 2016 |
| ASTRO 302: Scientists Teaching Science, <i>Harvard</i> | 2014 |

Mentorship

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| Aneek Jana, graduate student in physics, <i>UW-Madison</i> | Fall 2025 - Now |
| Jianhao Wu, graduate student in physics, <i>UW-Madison</i> | Fall 2025 - Now |
| Radha Mastandrea, postdoc in physics, <i>UChicago</i> | Summer 2025 |
| Malika Golshan, post-graduate in physics, <i>UC Berkeley</i> | Fall 2024 |
| Abhipsha Das, graduate student in CS, <i>NYU Courant Institute</i> | Summer 2024 |
| Luis Zerkowski, graduate student in AI at <i>University of Amsterdam</i> | Summer 2024 |
| Zixuan Wang, graduate student in CS at <i>Georgia Tech</i> | Summer 2024 |
| Shahzar Rizvi, undergraduate & then graduate student in Statistics at <i>UC Berkeley</i> | 2022 - 2024 |
| Sowmya Thanvantri, undergraduate in Physics at <i>UC Berkeley</i> | 2022 - 2024 |
| Jason Wong, undergraduate in Physics at <i>UC Berkeley</i> | 2022 |

Leadership & Service

Referee: Physical Review D, NeurIPS ML for the Physical Sciences Workshop, Women in ML Workshop at NeurIPS

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| Associate Editor, <i>Physical Review X Intelligence</i> | 2026 |
| Lead Organizer, <i>NeurIPS ML for the Physical Sciences Workshop</i> | 2025 |
| Organizer, <i>NeurIPS ML for the Physical Sciences Workshop</i> | 2024 |
| Mentor, <i>Google Summer of Code</i> <ul style="list-style-type: none">Supervised two open-source 12-week research projects with students | 2024 |
| Trigger Studies Liaison, <i>ATLAS $H \rightarrow \tau\tau$ Analysis Group</i> | 2017 - 2021 |
| Session Co-Convener, <i>PyHEP (Conference for Python in High-Energy Physics)</i> | 2020 |
| President, <i>The Signet Society of Arts & Letters</i> , Harvard University | 2014 |

Inclusion & Outreach

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| QuarkNet Speaker <ul style="list-style-type: none">Presented a talk on physics, art, and ML to high school studentsAnswered their questions in a separate hour-long interview | 2022 - 2024 |
| Member of the APS Inclusion, Diversity, and Equity Alliance | 2020 |
| Member of the Yale Physics Climate & Diversity Committee <ul style="list-style-type: none">Contributed to the design of our department's Code of Conduct | 2019 - 2021 |
| US LHC Users Association advocacy trip to Capitol Hill <ul style="list-style-type: none">Met with the offices of around 15 representatives from Congress each yearGarnered support for high-energy physics research through DOE & NSF | 2018 - 2020 |
| Speaker, <i>Science in the News</i> , delivering scientific talks to the New Haven public | 2017 - 2018 |
| Girls' Science Investigations at Yale <ul style="list-style-type: none">Volunteer & "ask-a-scientist" Q&A speaker | 2017 - 2018 |
| Winner, Windy City Physics Slam at ICHEP | 2016 |
| Choreographer of <i>Form Factors</i> , a dance intervention with physicists at ICHEP | 2016 |
| Yale Women in Physics Mentor | 2015 - 2020 |

Scientific Essays

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| How to Unfold with AI <i>CERN Courier</i> , Cover Feature, Jan/Feb 2025 Edition | 2025 |
| A high-dimensional jet-powered measurement of the strong force <i>CERN Experimental Physics Newsletter</i> | 2024 |
| LLMs and the Language of Science | 2023 |

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| <i>APS Topical Group on Data Science Newsletter</i> | |
| xVal: A Continuous Number Encoding for LLMs <i>Polymathic AI Collaboration Blog Post</i> | 2023 |
| Theories of Everything <i>Sightline Arts</i> | 2018 |
| Now or Never: The Case for a Larger Hadron Collider <i>Yale Distilled Magazine</i> | 2018 |
| Arts | |
| AI & Art | |
| mememormee : an evening-length work featuring AI-generated choreography set on six dancers, following a residency at Amherst College <ul style="list-style-type: none"> Spotlight, 2023 NeurIPS Workshop on ML for Creativity & Design | 2023 |
| Untitled Bird Project : a pop-up exhibit of AI-generated bird calls situated in nature | 2021 |
| Mirror Exercise : an AI-generated duet with myself <ul style="list-style-type: none"> Featured in Le Mérite, at the Comédie de Caen, Théâtre des Cordes, France Highlight, NeurIPS Workshop on ML for Creativity & Design Shown at Level Up: The Dramaturgy of Digital Performance & Design Featured by the AI Transparency Institute & the 2020 AI Governance Forum Boston Cyberarts Gallery exhibition <i>Perceptions / Distortions</i> | 2020 |
| Studio fellow, <i>Yale Center for Collaborative Arts & Media</i> <ul style="list-style-type: none"> Year-long paid fellowship to develop work across art & technology | 2020 |
| SIGMA : a short film of AI-generated choreography <ul style="list-style-type: none"> NeurIPS Workshop on ML for Creativity & Design's AI Art Gallery | 2019 |
| Live Performance | |
| Dancer, Sublimation <ul style="list-style-type: none"> By Kinetech Arts Supported by the Djerassi Resident Artists Program and Creative Work Fund Performed at David Ruth Glass Studio, Oakland, CA | 2022 |
| Dancer, Detour <ul style="list-style-type: none"> By Kinetech Arts, commissioned by the Berkeley Dance Project Performed at Zellerbach Playhouse, Berkeley, CA | 2022 |
| Dancer & Coordinator, <i>Transpositions</i> <ul style="list-style-type: none"> Chor. Brian Seibert, Renee Robinson, & Elm City Dance Collective | 2020 |
| Choreographer, <i>Elon Musk and the plan to Blow Up Mars the musical</i> <ul style="list-style-type: none"> Yale Cabaret, dir. Liam Bellman-Sharpe | 2020 |
| Dancer, Coordinator, & Rehearsal Director, <i>Yale Dance Lab</i> <ul style="list-style-type: none"> New work by choreographer Vicky Shick: "everywhere" | 2020 |
| Bill T. Jones/Arnie Zane Dance Company Intensive, <i>Yale Dance Theater</i> | 2019 |

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| <ul style="list-style-type: none"> • Dancer in a restaging of <i>D-Man in the Waters</i> | |
| Featured performer, <i>The Hexagonal Hive and a Mouse in a Maze</i> | 2019 |
| <ul style="list-style-type: none"> • Interviewed for a documentary by the Derek Jarman Lab, dir. Tilda Swinton | |
| Dancer, <i>Dance Drawings (For Jock)</i> | 2018 |
| <ul style="list-style-type: none"> • Choreography by Emily Coates at the Yale Art Gallery's Sol LeWitt exhibit | |
| Paul Taylor Dance Company Intensive, <i>Yale Dance Theater</i> | 2018 |
| <ul style="list-style-type: none"> • Lead role in the first restaging of Taylor's <i>Party Mix</i> in four decades | |
| Featured performer, <i>Machine Woman</i> , dir. Anna Hagen & Jeannie Sui Wonders | 2018 |
| <ul style="list-style-type: none"> • A short film documenting my AI-generated choreography research | |
| Choreographer: "La Mort du Chorégraphe", <i>A Different Drum Dance Company</i> | 2017 |
| Urban Bush Women Intensive, <i>Yale Dance Theater</i> | 2017 |
| Gaga Intensive with Saar Harari & Lee Sher, <i>Yale Dance Theater</i> | 2016 |
| Choreographer: "Rang Cherries", <i>A Different Drum Dance Company</i> | 2016 |
| Actor, <i>Attempts on Her Life</i> , dir. Tania Clarke, <i>University of Cambridge</i> | 2015 |
| Dancer, <i>Evolution</i> , ADC Theatre, <i>University of Cambridge</i> | 2015 |
| Director/Writer/Choreographer: <i>Symmetry Breaking</i> , <i>Harvard University</i> | 2014 |
| <ul style="list-style-type: none"> • Senior thesis & immersive multimedia performance about the Higgs boson | |
| Choreographer-in-Residence, <i>Harvard Dance Center</i> | 2014 |
| Dancer, <i>Paper Wing</i> , chor. Jill Johnson, Farkas Hall | 2014 |
| Arts@CERN Internship | 2013 |
| Eurydice, <i>Antigonick</i> , dir. Ianthe Demos, American Repertory Theater Mainstage | 2013 |
| Isabelle & Executive Producer, <i>The Edge of the Map</i> , dir. Calla Videt (Sightline) | 2013 |
| Dancer, <i>At Last</i> , Loeb Experimental Theater, Harvard University | 2013 |
| Dancer, <i>On The Run</i> , Harvard Dance Center | 2013 |
| Vice-President & Mainstage Coordinator, <i>The Harvard-Radcliffe Dramatic Club</i> | 2012 |
| Lucy, <i>CryHurtFood</i> , Loeb Experimental Theater / Crucible Mainstage (Sheffield, UK) | 2012 |
| Director: <i>for the purpose of catching ourselves in the act of being the most</i> | 2012 |
| <ul style="list-style-type: none"> • Guinness World Record: longest telephone conversation between two people | |
| Co-founder and collaborator, <i>The Harvard Generalist</i> artistic collective | 2011 |
| Drama & Dance Proctor, <i>Harvard University Freshman Arts Program</i> (2011-2014) | 2011 |