

Mariel Pettee

Physicist, AI researcher, and artist
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Education

2021	YALE UNIVERSITY, New Haven, CT	PhD in Physics
2015	UNIVERSITY OF CAMBRIDGE, Trinity College, Cambridge, UK Lt. Charles H. Fiske III Harvard-Cambridge Scholar Commendable Performance	MASt in Physics
2014	HARVARD UNIVERSITY, Cambridge, MA Cum Laude, High Honors in Field Secondary in Dramatic Arts	AB in Physics & Mathematics

Research Experience

2022 - Now	GUEST RESEARCHER • <i>Flatiron Institute & Polymathic AI</i> As a founding member of the Polymathic AI collaboration, I am working to build the first foundation models for science. My focus areas include numerical embeddings in language models, understanding interdisciplinary domain transfer, and interpretability. Supervisor: Prof. Shirley Ho
2021 - Now	CHAMBERLAIN POSTDOCTORAL FELLOW • <i>Lawrence Berkeley National Lab</i> My postdoctoral work is grounded in radical applications of AI for fundamental physics. Highlights include the first unbinned measurement at the LHC, finding stellar streams in the Milky Way with weakly-supervised anomaly detection, improving pion reconstruction with GNNs, and exploring best practices for learning likelihood ratios. Supervisor: Dr. Benjamin Nachman
2020	AI INTERN • <i>Intel AI Lab</i> As a summer intern with the AI Lab at Intel, I developed a recurrent VAE architecture to learn latent graph representations of the human body in motion. Supervisor: Dr. Hanlin Tang
2016 - 2021	GRADUATE RESEARCHER • <i>Yale University & the ATLAS Experiment at CERN</i> The highlight of my PhD thesis was finding the first evidence of a Higgs boson produced in association with a leptonically-decaying W or Z boson and decaying into a pair of tau leptons. I also implemented RNN-based tau triggers in ATLAS and performed trigger and data acquisition optimization studies at the Mu2e Experiment at Fermilab. Supervisor: Prof. Sarah Demers
2014 - 2015	GRADUATE RESEARCHER • <i>University of Cambridge</i> While pursuing my Master's degree at the University of Cambridge, I constructed and tested nanoscale battery prototypes made of DNA-functionalized gold nanocolloids. Supervisor: Prof. Erika Eiser

Selected Publications

Full list of papers with the ATLAS Collaboration. (**Note:** ▷ indicates alphabetical author ordering.)

- 2024 ATLAS Collaboration (**Contact Editor**). [A Simultaneous Unbinned Differential Cross Section Measurement of 24 Z+jets Kinematic Observables with the ATLAS Detector](#). *Submitted to Phys. Rev. L.* [CERN-EP-2024-132] [arXiv:2405.20041] [hep-ex].
- ATLAS Collaboration (**Contact Editor**). [Evidence of the VH, \$H \rightarrow \tau\tau\$ process with the ATLAS detector in Run 2](#). *Phys. Rev. B.* [CERN-EP-2023-272] [arXiv:2312.02394] [hep-ex].
- 2023 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. [xVal: A Continuous Number Encoding for Large Language Models](#). *NeurIPS AI for Science Workshop*. [arXiv:2310.02989] [stat.ML].
- M. Pettee**, S. Thanvantri, B. Nachman, D. Shih, M. R. Buckley, J. H. Collins. [Weakly-Supervised Anomaly Detection in the Milky Way](#). *MNRAS*. [arXiv:2305.03761] [astro-ph.GA].
- S. Rizvi, **M. Pettee**, B. Nachman. [Learning Likelihood Ratios with Neural Network Classifiers](#). *JHEP*. [arXiv:2305.10500] [hep-ph].
- V. Mikuni, **M. Pettee**, B. Nachman. [Fast Point Cloud Generation with Diffusion Models in High Energy Physics](#). *Phys. Rev. D.* [arXiv:2304.01266] [hep-ph].
- ▷ A. Huang, X. Ju, J. Lyons, D. Murnane, **M. Pettee**, L. Reed. [Heterogeneous Graph Neural Network for Identifying Hadronically Decayed Tau Leptons at the High Luminosity LHC](#). *JINST*. [arXiv:2301.00501] [physics.ins-det].
- 2022 ▷ A. Bogatskiy, S. Ganguly, T. Kipf, R. Kondor, D. W. Miller, D. Murnane, J. T. Offermann, **M. Pettee (co-editor)**, P. Shanahan, C. Shimmin, and S. Thais. [Symmetry Group Equivariant Architectures for Physics](#). *Snowmass 2021 White Paper*. [arXiv:2203.06153] [cs.LG].
- ATLAS Collaboration (**co-editor**). [Point Cloud Deep Learning Methods for Pion Reconstruction in the ATLAS Experiment](#). [ATL-PHYS-PUB-2022-040].
- M. Papillon, **M. Pettee**, N. Miolane. [PirouNet: Creating Dance through Artist-Centric Deep Learning](#). *EAI ArtsIT 2022 (Best Paper Award)*. [arXiv:2207.12126] [cs.LG].
- M. Papillon, **M. Pettee**, N. Miolane. [Intentional Choreography with Semi-Supervised Recurrent VAEs](#). *NeurIPS 2022 Workshop on ML for Creativity and Design*. [arXiv:2209.10010] [cs.LG].
- ▷ G. Kasieczka, R. Mastandrea, V. Mikuni, B. Nachman, **M. Pettee**, D. Shih. [Anomaly Detection Under Coordinate Transformations](#). [arXiv:2209.06225] [hep-ph].
- 2021 **M. Pettee**. [Interdisciplinary Machine Learning for Particle Physics](#). *PhD Thesis, Yale University*.
- 2020 **M. Pettee**, S. Miret, S. Majumdar, and M. Nassar. [Choreo-Graph: Learning Latent Graph Representations of the Dancing Body](#). *NeurIPS 2020 Workshop on ML for Creativity and Design*.
- 2019 **M. Pettee**, C. Shimmin, D. Duhaime, and I. Vidrin. [Beyond Imitation: Generative and Variational Choreography via Machine Learning](#). *Proceedings of the 10th International Conference on Computational Creativity*. [arXiv:1907.05297] [cs.LG].
- The ATLAS Collaboration (**co-editor**). [Expected Performance of the ATLAS Detector at the High-Luminosity LHC](#). [ATL-PHYS-PUB-2019-005].

Invited Talks

A SIMULTANEOUS UNBINNED DIFFERENTIAL CROSS-SECTION MEASUREMENT OF 24 Z +JETS OBSERVABLES

2024 *Ljubljana, Slovenia* ATLAS Standard Model Workshop

TOWARDS FOUNDATION MODELS FOR FUNDAMENTAL PHYSICS

2024 NASA, *Huntsville, AL* Science Mission Directorate AI Workshop
 DESY, *Hamburg, Germany* 1st Large Language Models in Physics Symposium
 LBNL, *Berkeley, CA* Physics Division Research Progress Meeting
 U. of Tokyo, *Tokyo, Japan* AI-Driven Discovery in Physics & Astrophysics
 KEK, *Tsukuba, Japan* ML for HEP Workshop

WHAT DO LANGUAGE MODELS HAVE TO SAY ABOUT FUNDAMENTAL PHYSICS?

2024 MIT, *Cambridge, MA* IAIFI Summer Workshop
 UC Berkeley, *Berkeley, CA* Bakar Inst. of Digital Materials for the Planet Seminar
 SLAC, *Menlo Park, CA* SLAC AI Seminar

2023 IBM, *Zurich, Switzerland* IBM Research Seminar

DANCING WITH MYSELF: AI AND CHOREOGRAPHY

2024 Pratt Institute, *Brooklyn, NY* AI in the Humanities Symposium
 Foothill College, *Los Altos Hills, CA* Creativity in the Age of AI Symposium

2023 Mills College, *Oakland, CA* DanceHack Workshop

2022 U. of Alabama, *Tuscaloosa, AL* Theatre & Dance Department Colloquium
 Amherst College, *Amherst, MA* AI in the Liberal Arts Seminar
 Ballet Des Moines, *Des Moines, IA* Panel Discussion: Creativity, Science, and Ethics
 Kinetech Arts, *San Francisco, CA* Y-Exchange Featured Artist

2020 Kinetech Arts, *San Francisco, CA* Kinetech Open Lab Talk
 Brown U., *Providence, RI* Conference for Research on Choreographic Interfaces

INTERDISCIPLINARY AI FOR FUNDAMENTAL PHYSICS

2023 Ascona, *Switzerland* Hammers & Nails (Swiss Edition)
 Flatiron CCA, *New York, NY* KITP Workshop on Data-Driven Galaxy Evolution

2022 Univ. of Alabama, *Tuscaloosa, AL* Physics Department Colloquium
 SLAC, *Menlo Park, CA* SLAC AI Seminar
 UC Irvine, *Irvine, CA* Physics & Astronomy Machine Learning Seminar Series
 Imperial College, *London, UK* Data Learning Working Group Seminar
 Amherst College, *Amherst, MA* Artificial Intelligence in the Liberal Arts Seminar Series
 Cornell U., *Ithaca, NY* Laboratory for Elementary Particle Physics Journal Club

2021 UC Berkeley, *Berkeley, CA* Berkeley Institute for Data Science ML + Science Forum
 Seattle U., *Seattle, WA* Physics Department Colloquium
 U. of Tennessee, *Knoxville, TN* HEP Seminar
 Flatiron Institute, *New York, NY* Center for Computational Astrophysics ML Forum

WEAKLY-SUPERVISED ANOMALY DETECTION IN THE MILKY WAY

2023 UChicago, *Chicago, IL* Data Science Institute & James Franck Institute Seminar
 Rutgers U., *New Brunswick, NJ* High-Energy Physics Theory Seminar

EQUIVARIANCE MEETS INVARIANCE: PHYSICS-INFORMED MACHINE LEARNING

2023 *Minneapolis, MN* American Physical Society (APS) April Meeting

Contributed Talks

A SIMULTANEOUS UNBINNED DIFFERENTIAL CROSS-SECTION MEASUREMENT OF 24 Z +JETS OBSERVABLES

2024 Sorbonne Université, *Paris, France* France-Berkeley PHYSTAT Conference on Unfolding

USING CLASSIFIERS FOR UNBINNED UNFOLDING

2024 Sorbonne Université, *Paris, France* France-Berkeley PHYSTAT Conference on Unfolding

WEAKLY-SUPERVISED ANOMALY DETECTION IN THE MILKY WAY

2023 Flatiron Institute, *New York, NY* Flatiron-Wide Machine Learning Meeting

POINT CLOUD METHODS FOR PION RECONSTRUCTION IN THE ATLAS DETECTOR

2022 CERN, *Geneva, Switzerland* Inter-experiment Machine Learning Workshop
New York, NY APS April Meeting

DANCING WITH MYSELF: AI AND CHOREOGRAPHY

2021 *St. Louis, MO* Strange Loop Conference

CHOREO-GRAPH: LEARNING LATENT GRAPH REPRESENTATIONS OF THE DANCING BODY

2020 NeurIPS, *Vancouver, Canada* Workshop on ML for Creativity and Design

RUN 3 TRIGGERS FOR HLEPTONS ANALYSES

2020 *Online* ATLAS Tau & HLeptons Workshop

EXPECTED ATLAS PERFORMANCE AT THE HL-LHC

2019 UMass Amherst, *Amherst, MA* US ATLAS Workshop

OVERVIEW OF TAU VS. JET IDENTIFICATION

2019 *Prague, Czech Republic* ATLAS Tau & HLeptons Workshop

BEYOND IMITATION: GENERATIVE CHOREOGRAPHY VIA MACHINE LEARNING

2019 UNC Charlotte, *Charlotte, NC* International Conference on Computational Creativity

RNN TAU IDENTIFICATION IN THE ATLAS HLT

2018 Fermilab, *Batavia, IL* US LHC Users Association Meeting
CERN, *Geneva, Switzerland* ATLAS Machine Learning Workshop

THE 2018 ATLAS TAU TRIGGER & COMBINED PERFORMANCE

2018 U. of Pittsburgh, *Pittsburgh, PA* US ATLAS Workshop

ATLAS TAU TRIGGER & COMBINED PERFORMANCE AT HIGH μ

2018 CERN, *Geneva, Switzerland* ATLAS P&P Physics Plenary

FTK & THE TAU TRIGGER

2018 CERN, *Geneva, Switzerland* ATLAS TDAQ Week

Awards

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

Press

- 2024 [Viewing the Standard Model with unprecedented detail through the lens of AI](#)
Berkeley Lab Physical Sciences News
- 2023 [ATLAS measures rare Higgs boson interaction with tau leptons](#), *ATLAS Briefing*
 - “Scientists Begin Building AI for Scientific Discovery Using Tech Behind ChatGPT”
 - [Simons Foundation Press Release](#)
 - [Berkeley Lab Article](#)
- 2022 Interviewee on the Cognicast podcast
 - A wide-ranging discussion of my research trajectory across AI, physics, and art
 - [Episode webpage](#)
 - [Listen on Apple Podcasts](#)
- 2021 [Mariel Pettee successfully defends PhD thesis](#), *Yale Physics*
- 2020 [Advice to Women in STEM: Mariel Pettee](#), *Yale Scientific Magazine*

- 2019 [Feature on Yale University's Instagram page](#)
[Featured on Women+ Art AI](#)
- 2016 [Scientists Battle for Physics Slam Crown](#), *PBS Chicago*
- 2013 [15 Most Interesting Seniors: Mariel N. Pettee](#), *The Harvard Crimson*

Scientific Essays

- 2024 [A high-dimensional jet-powered measurement of the strong force](#)
CERN Experimental Physics Newsletter
- 2023 [LLMs and the Language of Science](#)
APS Topical Group on Data Science Newsletter
- [xVal: A Continuous Number Encoding for LLMs](#)
Polymathic AI Collaboration Blog Post
- 2018 [Theories of Everything](#)
Sightline Arts
- Now or Never: The Case for a Larger Hadron Collider
Yale Distilled Magazine

Teaching Experience

Guest Lectures

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| 2023 | THE LANGUAGE OF MOVEMENT | Amherst College, <i>Amherst, MA</i> |
| 2021 | GRADUATE-LEVEL MACHINE LEARNING FOR PHYSICS | U. of Alabama, <i>Tuscaloosa, AL</i> |

Graduate-level Courses on Scientific Teaching

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

Teaching Assistant Experience

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

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

Student Mentorship

Fall 2024	Malika Golshan, post-grad in Physics at UC Berkeley <i>Weakly Supervised vs. Fully Supervised Learning</i>
Summer 2024	Abhipsha Das, grad student in Computer Science at NYU Courant Institute <i>Mapping the Landscape of Scientific Literature with LLMs</i>
Summer 2024	Luis Zerkowski, grad student in Artificial Intelligence at University of Amsterdam <i>Analyzing Choreographic Duets with Graph-Based Autoencoders</i>
Summer 2024	Zixuan Wang, grad student in Computer Science at Georgia Institute of Technology <i>Generating Choreographic Duets with Transformers</i>
2022 - 2024	Shahzar Rizvi, undergrad & then graduate student in Statistics at UC Berkeley <i>Learning Likelihood Ratios with Neural Network Classifiers</i> (published in JHEP) Next position: graduate student at MIT
2022 - 2024	Sowmya Thanvantri, undergrad in Physics at UC Berkeley <i>Stellar Stream Labeling with Graph Neural Networks</i> Next position: graduate student at Princeton
2022	Jason Wong, undergrad in Physics at UC Berkeley <i>Optimization Studies for the ATLAS OmniFold Measurement</i> Next position: graduate student at UC Berkeley

Leadership & Service

2024	Google Summer of Code Mentor <ul style="list-style-type: none">Directly supervised two open-source 12-week research projects with students Organizer for NeurIPS Physical Sciences Workshop Co-Coordinator of Polymathic AI's future research & development cohort
2019 - 2024	Reviewer for NeurIPS Physical Sciences Workshop
2017 - 2021	HLeptons Trigger Liaison: Trigger Studies for the ATLAS $H \rightarrow \tau\tau$ Analysis Group
2020	Session Co-Convener, PyHEP 2020 (Conference for Python in High-Energy Physics)
2019	Reviewer for Women in Machine Learning (WiML) Workshop
2014	President, <i>The Signet Society of Arts & Letters</i> , Harvard University

Inclusion & Outreach

- 2022 - 2024 QuarkNet Speaker
- Presented a talk on physics, art, and ML to high school students
 - Answered their questions in a separate hour-long interview
- 2020 Member of the American Physical Society’s Inclusion, Diversity, and Equity Alliance
- 2019 - 2021 Member of the Yale Physics Climate & Diversity Committee
- Advocated for a department-wide discussion of discrimination in our community
 - Contributed to the design of our department’s Code of Conduct
- 2018 - 2020 US LHC Users Association advocacy trip to Capitol Hill
- Met with the offices of around 15 representatives from Congress each year
 - Garnered support for high-energy physics research through DOE & NSF
- 2017 - 2018 Speaker, *Science in the News*, delivering scientific talks to the New Haven public
- Girls’ Science Investigations at Yale
- Volunteer & “ask-a-scientist” Q&A speaker
- 2016 Winner, Windy City Physics Slam at ICHEP
- Choreographer of *Form Factors*, a dance intervention with physicists at ICHEP
- 2015 - 2020 Yale Women in Physics Mentor

Posters

- 2022 POINT CLOUD METHODS FOR PION RECONSTRUCTION IN THE ATLAS DETECTOR
Large Hadron Collider Physics Conference, *Online*
- 2020 CHOREO-GRAPH: LEARNING LATENT GRAPH REPRESENTATIONS OF THE DANCING BODY
Women in Machine Learning (WiML) Workshop at NeurIPS, *Online*
- RNN TAU IDENTIFICATION IN THE ATLAS HIGH-LEVEL TRIGGER
ATLAS Trigger & Data Acquisition Week at CERN, *Geneva, Switzerland*
- 2019 GENERATIVE & VARIATIONAL CHOREOGRAPHY VIA MACHINE LEARNING
Women in Machine Learning (WiML) Workshop at NeurIPS, *Vancouver, Canada*
- MACHINE WOMAN: PRESERVATION, MEMORY, FORGETTING, AND AI
Women’s Faculty Forum, Yale University, *New Haven, CT*
- 2017 PERFORMANCE OF THE ATLAS TAU TRIGGER IN RUN 2
Advanced Computing & Analysis Techniques in Physics Research (ACAT), *Seattle, WA*
- 2016 TRIGGER STUDIES FOR THE MU2E EXPERIMENT (**Poster Award**: top 20 out of 500)
International Conference on High Energy Physics (ICHEP), *Chicago, IL*

Arts

AI & Art

- 2023 [mememormee](#): an evening-length work featuring AI-generated choreography set on six dancers, following a residency at Amherst College
- Spotlight Presentation at the 2023 NeurIPS Workshop on ML for Creativity & Design
- 2021 [Untitled Bird Project](#): a 1 hour pop-up exhibit featuring AI-generated bird calls situated in nature
- 2020 [Mirror Exercise](#): an AI-generated duet with myself
- Featured in [Le Mérite](#), at the Comédie de Caen, Théâtre des Cordes, France.
 - Highlighted in the NeurIPS Workshop on ML for Creativity and Design's [AI Art Gallery](#)
 - Digital exhibition at [Level Up: The Dramaturgy of Digital Performance & Design](#)
 - Selected by the AI Transparency Institute & featured at the 2020 AI Governance Forum
 - Boston Cyberarts Gallery exhibition *Perceptions / Distortions* (cancelled due to COVID)
- Studio fellow, *Yale Center for Collaborative Arts & Media*
- Year-long paid fellowship to develop work across art & technology
- 2019 [SIGMA](#): a short film of AI-generated choreography
- Featured in the NeurIPS 2019 Workshop on ML for Creativity & Design's [AI Art Gallery](#)

Live Performance

- 2022 Dancer, [Sublimation](#)
- By Kinetech Arts
 - Supported by the Djerassi Resident Artists Program and Creative Work Fund
 - Performed at David Ruth Glass Studio, Oakland, CA
- Dancer, [Detour](#)
- By Kinetech Arts, commissioned by the Berkeley Dance Project
 - Performed at Zellerbach Playhouse, Berkeley, CA
- 2020 Dancer & Coordinator, *Transpositions*
- Dancer in virtual pieces by Brian Seibert, Renee Robinson, and Elm City Dance Collective
- Choreographer, *Elon Musk and the plan to Blow Up Mars the musical*
- Yale Cabaret, dir. Liam Bellman-Sharpe
- Dancer, Coordinator, & Rehearsal Director, *Yale Dance Lab*
- New work by choreographer Vicky Shick: "everywhere"
- 2019 Bill T. Jones/Arnie Zane Dance Company Intensive, *Yale Dance Theater*
- Dancer in a restaging of *D-Man in the Waters*
- Featured performer, [The Hexagonal Hive and a Mouse in a Maze](#)
- Interviewed for a documentary by the Derek Jarman Lab, directed by Tilda Swinton
- 2018 Dancer, *Dance Drawings (For Jock)*
- Choreography by Emily Coates located at the Yale Art Gallery's Sol LeWitt exhibit
- Paul Taylor Dance Company Intensive, *Yale Dance Theater*
- Leading role as "The Hostess" in the first restaging of Taylor's *Party Mix* in four decades

- Featured performer, *Machine Woman*, dir. Anna Hagen & Jeannie Sui Wonders
- A short film documenting my AI-generated choreography research
- 2017 Choreographer: “La Mort du Chorégraphe”, *A Different Drum Dance Company*
Urban Bush Women Intensive, *Yale Dance Theater*
- 2016 Gaga Intensive with Saar Harari & Lee Sher, *Yale Dance Theater*
Choreographer: “Rang Cherries”, *A Different Drum Dance Company*
- 2015 Actor, *Attempts on Her Life*, dir. Tania Clarke, Corpus Playroom, *University of Cambridge*
Dancer, *Evolution*, ADC Theatre, *University of Cambridge*
- 2014 Director/Writer/Choreographer: *Symmetry Breaking*, Farkas Hall, *Harvard University*
- My senior physics thesis: an immersive multimedia performance about the Higgs boson
- Choreographer-in-Residence, *Harvard Dance Center*
Dancer, *Paper Wing*, chor. Jill Johnson, Farkas Hall
- 2013 [Arts@CERN](#) Internship
- Eurydice, *Antigonick*, dir. Ianthe Demos, American Repertory Theater Mainstage
Isabelle & Executive Producer, *The Edge of the Map*, dir. Calla Videt (Sightline Theater Company)
Dancer, *At Last*, Loeb Experimental Theater, Harvard University
Dancer, *On The Run*, Harvard Dance Center
- 2012 Vice-President & Mainstage Coordinator, *The Harvard-Radcliffe Dramatic Club*
Lucy, *CryHurtFood*, Loeb Experimental Theater & Crucible Mainstage (Sheffield, UK)
Director: *for the purpose of catching ourselves in the act of being the most*
- Set the Guinness World Record for the longest telephone conversation between two people
- 2011 Co-founder and collaborator, *The Harvard Generalist* artistic collective
Drama & Dance Proctor, *Harvard University Freshman Arts Program* (2011-2014)