

# John Kehayias

Lecturer in Critical Writing  
Physicist, Programmer, Writer

## About me

My training is as a theoretical physicist, focusing on fundamental research of how the universe works. I love learning new things and constantly exploring different topics to broaden and deepen my understanding. From childhood, I have been fascinated by technology and continuously programming. More recently I have been teaching writing and educating students about science and technology in everyday life.

## Contact

john.kehayias@protonmail.com

## Key Skills


Research • Programming in multiple languages with version control and multiple contributors • Academic and public writing and presenting • Technical communication and coordination

## Other Skills


Linux and web server administration • Basic cryptography (encryption, code signing, etc.) • Physics and mathematics software (Wolfram Mathematica) • Common word processing, spreadsheet, and presentation software (Microsoft Office, Google) • Photography with Adobe and open source processing software

 Email

 GitHub

 GitLab

 Google Scholar

 Muck Rack

## EXPERIENCE

2017–Present	<b>Lecturer in Critical Writing</b> CRITICAL WRITING PROGRAM · University of Pennsylvania Teach academic, professional, and public writing in an award-winning program. Topics in science and math, including a popular Penn Global Seminar with travel to Japan.
2017, 2022	<b>Freelance Data Scientist/Programmer</b> TENOR, MOSEY · San Francisco, CA Researched and developed search and categorization algorithms for Tenor using Machine Learning techniques, <code>node2vec</code> , <code>word2vec</code> , and hierarchical representations. Implemented state business requirements and backend workflow automation for Mosey with Python and Playwright.
2011–2016	<b>Postdoctoral Scholar and Research Fellow</b> VANDERBILT UNIVERSITY AND KAVLI IPMU (UNIVERSITY OF TOKYO) · Nashville, TN & Tokyo, Japan Conducted research in theoretical particle physics, cosmology, gravity, and astrophysics. Gave 14 presentations and attended 9 conferences in Europe, Asia, and the US.

## EDUCATION




2011	<b>PhD, MS</b> PHYSICS · University of California, Santa Cruz <b>Advisers:</b> Michael Dine and Stefano Profumo <b>Dissertation topic:</b> Discrete $R$ -symmetries in supersymmetric theories <b>Research areas:</b> theoretical particle physics including phenomenology and supersymmetric theories, astrophysics, cosmology, and gravity
2006	<b>BA</b> PHYSICS AND MATHEMATICS · Columbia University

## PROGRAMMING

<b>Languages</b>	Python, C/C++, Common Lisp, Guile Scheme, Git, shell scripting (Bash), $\LaTeX$
<b>Open Source</b>	GNU Guix (operating system/distribution of GNU/Linux and package manager): <b>contributor with commit access</b> since December 2022; contribute to the GNU Guix Blog (security issue and new feature); presented at the free and open source conference FOSDEM '23; <b>developer/maintainer</b> for Nonguix (non-free Guix channel); various bug reports, fixes, and testing for other free and open source projects

## PUBLICATIONS

<b>Scholarship</b>	Research papers in physics, cosmology, gravity, and astrophysics with over 15 international collaborators. Wrote more than <b>15 papers</b> published in leading journals and <b>cited over 300 times</b> . For a complete list see INSPIRE (high energy physics database). Published a paper in the Community Literacy Journal about a writing outreach program with local libraries established and run with colleagues from UPenn.
<b>Freelance Writing</b>	Pieces about technology, gaming and academia in Vice, Wired, and The Chronicle of Higher Education. Writer and editor for Boiling Steam, a website about gaming on Linux.

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