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

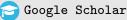
Other Skills

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









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EXPERIENCE

2017-Present

Lecturer in Critical Writing

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

Freelance Data Scientist/Programmer

TENOR, Mosey · San Francisco, CA

Researched and developed search and categorization algorithms for Tenor using Machine Learning techniques, node2vec, word2vec, and hierarchical representations. Implemented state business requirements and backend workflow automation for Mosey with Python and Playwright.

2011-2016

Postdoctoral Scholar and Research Fellow

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

PhD, MS

Physics · University of California, Santa Cruz

Advisers: Michael Dine and Stefano Profumo

Dissertation topic: Discrete *R*-symmetries in supersymmetric theories

Research areas: theoretical particle physics including phenomenology and supersymmetric theories, astrophysics, cosmology, and gravity

2006

BA

Physics and Mathematics · Columbia University

Programming

Languages

Open Source

GNU Guix (operating system/distribution of GNU/Linux and package manager): **contributor with commit access** since December 2022; contribute to the GNU Guix Blog (security issue and new feature); presented at the free and open source conference FOSDEM '23; **developer/maintainer** for Nonguix (non-free Guix channel); various bug reports, fixes, and testing for other free and open source projects

Python, C/C++, Common Lisp, Guile Scheme, Git, shell scripting (Bash), LATEX

PUBLICATIONS

Scholarship

Research papers in physics, cosmology, gravity, and astrophysics with over 15 international collaborators. Wrote more than **15 papers** published in leading journals and **cited over 300 times**. 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.

Freelance Writing

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.

John Kehayias 🖂 University of Pennsylvania 💡 Philadelphia, PA

