




## Key skills

Research ( 0000-0003-1330-4698); Programming ( holtzermann17); Creativity ( 9LeoRiW9aAc)

## Endorsement

"I believe this is one of the most interesting proposals I have ever come across in my role as EPSRC proposals reviewer." — Anonymous Reviewer of "An AI Assistant for Mathematics"

## Summary

At Oxford Brookes, I am currently working with a consortium of 20+ UK universities to bring about sectoral change by "Growing and Embedding Open Research in Institutional Practice and Culture". My research focuses on *learning*, *applied AI*, and *social machines*. I co-lead the university's AI and Data Analysis network, and offer external consulting on participatory design and citizen science through my company, Hyperreal Enterprises.

## Current Positions

Open Research Project Manager, Oxford Brookes (since 1/2023)  
Director, Hyperreal Enterprises, Ltd. (since 6/2019)

## Experience

Research Fellow, Institute for Ethical AI, Oxford Brookes (10/2020-12/2022)  
❖ *wrote £1.5m EPSRC grant proposal rated strong to very strong by independent reviewers. 1*

Associate Lecturer, Engineering, Computing and Mathematics, Oxford Brookes (2021-2022)  
❖ *taught graduate and undergraduate data analysis courses; MSc thesis supervision*

Hourly Paid Lecturer, Department of Digital Humanities, King's College London (2021-2022)  
❖ *supervised 7 Master's theses and led web programming tutorials*

Member of cohort LD14 at Entrepreneur First, a selective deep tech incubator programme (2020)  
❖ *market research on AI tutoring applications, identifying priority areas for future grant proposals*

Software Engineer (Clojure), Open Markets, developing a healthcare equipment marketplace (2019)  
❖ *10x growth of user base, with new single-sign-on feature*

Research Associate, "MathSoMac", School of Informatics, University of Edinburgh (2016-2019)  
❖ *published in 'Artificial Intelligence' (IF: 14.05); co-developed new "Data Science for Design" course*

Research Associate, "COINVENT", Computing, Goldsmiths, University of London (2014-2016)  
❖ *awarded 'Best Paper' at leading Computational Creativity conference (ICCC 2016)*

Editor in the Peeragogy Project, developing design patterns for effective peer learning (since 2012)  
❖ *led production of three editions of the Peeragogy Handbook; hosted 15 podcast episodes*

Member of the Board of Directors of PlanetMath.org, an online encyclopedia of mathematics (2005-2014)  
❖ *developed 'Planetary' (Drupal + Semantic Web): Finalist in Elsevier's Executable Papers challenge*

## Education

- PhD, Computing, The Open University. 2014.
- BA (Hons), Mathematics, New College of Florida. 2002.