

Patrick Gildersleve

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Summary: *I am an early career computational communications scientist. In my research I use computational, social, and network science approaches towards studying collaborative systems, social media, and news online. I look to answer wider questions of newsworthiness, agenda setting, collective attention and collective memory.*

Employment History

Lecturer in Communications and Artificial Intelligence

Department of Communications, Drama, and Film

University of Exeter

September 2024–Present

- Tenure-track assistant professor equivalent role.
- Fellow of the Higher Education Academy (FHEA). Distinction. 2025.

LSE Fellow in Computational Social Science

Department of Methodology

London School of Economics and Political Science

2021–2024

- Post-doctoral independent research and teaching role, including supervision of MSc dissertations.

Education

DPhil in Information, Communication and the Social Sciences

EPSRC Funded at the Oxford Internet Institute

Supervisors: Prof Taha Yasseri, Prof Renaud Lambiotte

Assessors: Prof Brian Keegan, Dr Jonathan Bright

University of Oxford

2016–2021

DPhil Thesis: *The Wikipedia News Network: Understanding Collective Response to Current Events Through the Internet's Encyclopaedia*

Master of Physics

First Class Honours

University of Oxford

2012–2016

Master's Project: *A Data Deanonimization Approach to Node Re-identification in Labor Flow Networks*

Supervisors: Dr Omar Guerrero, Dr Eduardo Lopez

Publications

Refractive Datasets as a Sensemaking Methodology in Closed Data Ecosystems

2025

A Beers, V Ito, A Orozco, P Gildersleve, P Aragón, F Tripodi

Forthcoming, accepted at Big Data & Society. Available on request.

WikiReddit: Tracing Information and Attention Flows Between Online Platforms

2025

P Gildersleve, A Beers, V Ito, A Orozco, F Tripodi

Proceedings of the International AAAI Conference on Web and Social Media (Vol. 19, pp. 2434-2445).

DOI:10.1609/icwsm.v19i1.35946

The News Comment Gap and Algorithmic Agenda Setting in Online Forums

2024

F Böwing, P Gildersleve

arXiv preprint DOI:10.48550/arXiv.2408.07052. Possible venues: Communication Methods and Measures, Journalism Studies, Digital Journalism.

Between News and History: Identifying Networked Topics of Collective Attention on Wikipedia

2023

P Gildersleve, T Yasseri, R Lambiotte

Journal of Computational Social Science, 1-31 DOI:10.1007/s42001-023-00215-w

Collective Memory in the Digital Age

2022

T Yasseri, P Gildersleve, L David

In S. M. O'Mara (Ed.), Collective memory (Progress in Brain Research Vol. 274, pp. 203-226). Elsevier.

DOI:10.1016/bs.pbr.2022.07.001

Computational Courtship: Understanding the Evolution of Online Dating through Large-scale Data Analysis

2021

R Dinh, P Gildersleve, C Blex, T Yasseri

Journal of Computational Social Science, 5(1) (pp. 401-426). DOI:10.1007/s42001-021-00132-w

- Modeling Collective Anticipation and Response on Wikipedia** 2021
R Kobayashi, P Gildersleve, T Uno, R Lambiotte
 Proceedings of the International AAAI Conference on Web and Social Media (Vol. 15, pp. 315-326).
 DOI:10.1609/icwsm.v15i1.18063
- Inspiration, Captivation, and Misdirection: Emergent Properties in Networks of Online Navigation** 2018
P Gildersleve, T Yasseri
 International Workshop on Complex Networks (pp. 271-282). Springer, Cham. DOI:10.1007/978-3-319-73198-8_23

Awards and Grants

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| Curating the Commons – AI, Wikipedia, and the Reconstruction of Notability
£171k | AHRC BRAID DOT
2025 |
| ADA Strategic Funding – CrAIC Launch Workshop
£6000 | University of Exeter
2025 |
| ECRN Enhancement Award
£1500 | University of Exeter
2025 |
| LSESU Award for Educating for Impact
<i>Highly Commended</i> | London School of Economics and Political Science
2024 |
| Excellence in Education Award
£1000 x2 | London School of Economics and Political Science
2022, 2023 |

Conference Presentations and Invited Talks

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| International Conference on Computational Social Science 2025
<i>Oral Presentation</i>
WikiReddit: Tracing Information and Attention Flows Between Online Platforms | SweCSS, IAS, Norrköping
July 2025 |
| International AAAI Conference on Web and Social Media 2025
<i>Oral Presentation & Poster</i>
WikiReddit: Tracing Information and Attention Flows Between Online Platforms | Copenhagen
June 2025 |
| Wiki Workshop 2025
<i>Oral Presentation</i>
WikiReddit: Tracing Information and Attention Flows Between Online Platforms | Online [recorded]
May 2025 |
| Wikimedia Research Showcase
<i>Invited Talk</i>
Collective Attention Across Wikipedia and the Web | Online [recorded]
January 2025 |
| International Conference on Computational Social Science 2024
<i>Oral Presentation</i>
The News Comment Gap and Algorithmic Agenda Setting in Online Forums | UPenn, Philadelphia
July 2024 |
| International Conference on Computational Social Science 2023
<i>Oral Presentation</i>
depths of wikipedia: Understanding Cross-Platform Online Attention, Content Creation, and Success | University of Copenhagen
July 2023 |
| Wiki Workshop 2023
<i>Oral Presentation</i>
depths of wikipedia: Understanding Cross-Platform Online Attention, Content Creation, and Success | Online [recorded]
May 2023 |
| Wikimedia Research Showcase
<i>Invited Talk</i>
What matters to us most and why? Studying popularity and attention dynamics via Wikipedia navigation data | Online [recorded]
August 2020 |
| External Seminar Series
<i>Invited Talk</i>
How Does News Become History? Using Wikipedia, Network Science, and Time Series Analysis to Understand the Chronicling of Collective Memory | National Institute of Informatics, Tokyo
January 2020 |

NetSciX 2020 <i>Oral Presentation</i> Navigating Historical Events through Wikipedia's Link Structure: A Comparative Analysis of Article Networks in 6 Language Editions	Waseda University, Tokyo <i>January 2020</i>
NetSciX 2020 <i>Poster Presentation</i> Bridging the Floating Gap: How News Events Build Networks of Collective Memory on Wikipedia	Waseda University, Tokyo <i>January 2020</i>
TORCH PastNet Hackathon <i>Invited Talk</i> Using Wikipedia and Networks to Study the Recording of History	University of Oxford <i>May 2019</i>
Conference on Complex Systems 2018 <i>Oral Presentation</i> The Interplay of Internal and External Traffic on Online Networks in the Prediction of Collective Attention	Aristotle University of Thessaloniki <i>September 2018</i>
Computational Social Science Satellite @ CCS2018 <i>Oral Presentation</i> Computational Romance: What Matters for Personal and Public Perceptions of Attractiveness in Online Dating?	Aristotle University of Thessaloniki <i>September 2018</i>
International Conference on Complex Networks <i>Oral Presentation & Publication</i> Inspiration, Captivation, and Misdirection: Emergent Properties in Networks of Online Navigation	Northeastern University, Boston <i>March 2018</i>
International Conference on Computational Social Science <i>Poster Presentation</i> Order in User Navigational Structures on Wikipedia	GESIS, Cologne <i>July 2017</i>
Data Natives <i>Oral Presentation</i> Order in User Navigational Structures on Wikipedia	City University of London <i>May 2017</i>

Teaching Positions

CMM2017: Internet Foundations and Frontiers <i>Convenor</i>	University of Exeter <i>2025</i>
CMM1004/CMM2008: Communications Research Methods <i>Convenor</i>	University of Exeter <i>2025-26</i>
CMM3002/3: Dissertation / Practical Research Project <i>Convenor (Co-convened with Dr Alexander RE Taylor 24-25)</i>	University of Exeter <i>2024-26</i>
CMMM001: Advanced Theory and Concepts <i>Lecturer & Seminar Teacher (Convenor Dr woori han, Dr Zizheng Yu)</i>	University of Exeter <i>2024-25</i>
CMM2002: Communications in the Workplace <i>Lecturer & Seminar Teacher (Convenor Dr Alexander RE Taylor)</i>	University of Exeter <i>2024-25</i>
MY580: Modern Text Analysis and NLP with Python (Short Course) <i>Convenor</i>	London School of Economics <i>2025</i>
ME202: Social Network Analysis (Summer School) <i>Co-Convenor with Dr Eleanor Power & Dr Milena Tsvetkova</i>	London School of Economics <i>2024-25</i>
MY459: Quantitative Text Analysis <i>Co-convenor with Dr Friedrich Geiecke</i>	London School of Economics <i>2023-24</i>
MY470: Computer Programming <i>Seminar Teacher (Convenor Dr Milena Tsvetkova)</i>	London School of Economics <i>2021-24</i>
MY461: Social Network Analysis <i>Lecturer & Seminar Teacher (Convenors Dr Eleanor Power & Dr Milena Tsvetkova)</i>	London School of Economics <i>2021-24</i>
MY472: Data for Data Scientists <i>Seminar Teacher (Convenor Dr Friedrich Geiecke)</i>	London School of Economics <i>2021-22</i>

MY452: Applied Regression Analysis*Seminar Teacher (Convenor Dr Daniele Fanelli)***London School of Economics**

2021-22

- o Designed and delivered lecture content, class materials, and assessments for these undergraduate (CMM1/2/3) and postgraduate (CMMM, MY4) level courses. Held weekly seminars, marked and provided feedback for assignments and exams across these five courses. Conducted course administration through Moodle and GitHub platforms.

Introduction to Computational Social Science with Python*Co-convenor with Dr Milena Tsvetkova***GESIS Fall Seminar, Mannheim**

September 2022

Week-long intense course for graduate students and professionals.

Teaching Assistant – Online Social Networks*Convenor: Dr Bernie Hogan*

MSc and PhD level course

Oxford Internet Institute

January–March 2018 & 2019

Teaching Assistant – Python for Social Data Science*Convenor: Dr Bernie Hogan*

MSc Social Data Science, DPhil Information, Communication and the Social Sciences

Oxford Internet Institute

October–November 2018

Teaching Assistant – Scripting for Social Scientists (Python)*Convenor: Dr Bernie Hogan*

MSc Social Science of the Internet, DPhil Information, Communication and the Social Sciences

Oxford Internet Institute

October–December 2017

Teaching Assistant – Social Network Analysis*Convenor: Prof Taha Yasseri***Oxford Summer School in Economic Networks**

June 2017

Graduate Supervision

Selected project titles:

University of Exeter MA Media and Communications

Smiling Under Algorithmic Discipline: Aesthetic Negotiation and Emotional Labour Among Female Creators on Short Video Platforms

AI Trust Discourse Practices in Corporate Press Releases: The Case of Google

Between Assistance and Manipulation: The Dual Impact of AI-Powered Personalization on Human Information Practices

LSE MSc Applied Social Data Science

What Makes the News: Selection Bias in Collective Action Reporting by Domestic and Dissident Media in China

Public Attitudes Towards Foreign Trade During the US-China Trade War: a Reddit Case Study

Measuring the Comment Gap: A Machine Learning and Quantitative Text Analysis Approach to Studying News Media

User Comments (**Best Dissertation Prize**)

Postpartum Depression: Analyzing Reddit Social Media Behaviour for Deepening Understanding and Early Detection –

A Quantitative Text Analysis and Machine Learning Approach

Making sense of the Danish 'Climate Election' Using Word and Document Embeddings

The Ties that Bind: A Social Network Analysis of Cultural Capital in Denmark

Service Responsibilities

Journal & Conference Reviewer – Communications Methods and Measures, Information, Communication and Society, International AAAI Conference on Web and Social Media, EPJ Data Science, Communications Earth & Environment, EPJ B, PLOS ONE

Lead for Communications and Public Relations*Institute for Data Science and Artificial Intelligence***University of Exeter**

2025–Present

External Examiner*Department of Politics and International Studies***University of Warwick**

2024–Present

Director - The Critical AI Centre (CrAIC)**University of Exeter**

2024–Present

Employability Representative*Department of Communications, Drama, and Film***University of Exeter**

2024–2025

Programme Committee – International Conference on Computational Social Science*Organizing Committee: Prof Dan Hopkins, Prof Xi Song***Philadelphia**

July 2024

Programme Committee – Wiki Workshop 2023, 2024*Organization: Wikimedia Foundation***Online**

May 2023, 2024

Programme Committee – ACM Hypertext <i>Organizing Committee: Dr Alessio Antonini, Dr Francesca Benatti</i>	Rome September 2023
Programme Committee – NetSciX <i>Organizing Committee: Dr Bruno Gonçalves, Prof Leo Ferres, Dr Javier Bustos-Jiménez</i>	Santiago January 2019
Assistant Interviewer <i>BA, MMath in Mathematics, Mathematics & Statistics, Mathematics & Computer Science</i>	Somerville College, University of Oxford December 2018, 2019
Chair <i>Graduate Joint Consultative Committee</i>	Oxford Internet Institute October 2018–2019
Student Representative <i>Research Committee, Graduate Studies Committee</i>	Oxford Internet Institute November 2017–November 2018, February 2018–June 2019

Media Appearances and Other Outputs

LSE Impact Blog <i>Grokopedia falls flat, but AI is already rewriting Wikipedia's future</i>	November 2025
Wikimedia Research Showcase <i>Collective Attention Across Wikipedia and the Web</i>	January 2025
Personal Blog <i>Elon Musk is right about Wikipedia</i>	October 2023
Wikimedia Research Showcase <i>Navigation, Networks, News, Wikipedia</i>	August 2020
Oxford Sparks Big Questions Podcast <i>Can data find me a date?</i>	February 2020
BBC News <i>Hot or not: Does rating yourself highly get you more dates?</i>	October 2018

Affiliations and Research Positions

Visting Fellow <i>Department of Methodology, London School of Economics and Political Science</i>	2025–Present
Research Collaborator – Search Prompt Integrity and Learning Lab <i>Principal Investigator: Dr Francesca Tripodi</i>	CITAP, UNC Chapel Hill 2024–Present
Research Assistant – Computational Romance Project <i>Principal Investigator: Dr Taha Yasseri</i>	Oxford Internet Institute June–September 2018
Intern – Central Laser Facility <i>Supervisors: Prof Peter Norreys, Prof David Neely</i>	Rutherford Appleton Laboratory, Harwell August–September 2014

Student Funding

TORCH PastNet Bursary £200	University of Oxford 2020
Green Templeton College Competitive Conference and Fieldwork Funding £830	University of Oxford 2018, 2020
Oxford Internet Institute Academic Scholarship £1464	University of Oxford 2019
DPhil Studentship £14,500 annually	EPSRC 2016–2020
Worcester College Academic Scholarship	University of Oxford 2015

Research Skills

- **Computing:** Comfortable with: Python, R, SQL, HTML, UNIX CLI. Working knowledge of: MATLAB, C, C++. Experienced in visualisation, parallelisation, cloud computing, and integrating generative AI tools.
- **Communication and Presentation skills:** Attended and presented at various conferences and seminars both internal and external to department and university. Built on guidance for personal and professional development from DPhil seminars and subsequent courses. Comfortable performing to crowds through additional teaching and musical stage experience.