Patrick Gildersleve

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□ gildersleve.uk

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

University of Exeter

Department of Communications, Drama, and Film

September 2024-Present

o Tenure-track assistant professor equivalent role.

LSE Fellow in Computational Social Science

London School of Economics

Department of Methodology

2021-2024

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

Education

DPhil in Information, Communication and the Social Sciences

University of Oxford

EPSRC Funded at the Oxford Internet Institute

2016-2021

Supervisors: Prof Taha Yasseri, Prof Renaud Lambiotte Assessors: Prof Brian Keegan, Dr Jonathan Bright

DPhil Thesis: The Wikipedia News Network: Understanding Collective Response to Current Events Through the

Internet's Encyclopaedia

Master of Physics University of Oxford

First Class Honours 2012–2016

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

Supervisors: Dr Omar Guerrero, Dr Eduardo Lopez

Publications

depths of wikipedia: Understanding Cross-Platform Online Attention, Content Creation, and Success 2025 P Gildersleve

Working Paper. Link to Extended abstract. Submitting to ACM SIGCHI Conference on Computer-Supported Cooperative Work & Social Computing.

WikiReddit: Tracing Information and Attention Flows Between Online Platforms

2025

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

arXiv preprint DOI:0.48550/arXiv.2502.04942. accepted at the International AAAI Conference on Web and Social Media 2025

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

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

Teaching Positions

CMM2008: Communications Research Methods

University of Exeter

2021

2025

2024

Convenor

CMM3002/3: Dissertation / Practical Research Project University of Exeter

Co-convenor with Dr Alexander RE Taylor

2024-25

CMMM001: Advanced Theory and Concepts

Lecturer & Seminar Teacher (Convenor Dr woori han)

University of Exeter

CMM2002: Communications in the Workplace

Lecturer & Seminar Teacher (Convenor Dr Alexander RE Taylor)

University of Exeter

MAYAFO. Owner: Latina Tank Analysis

MY459: Quantitative Text Analysis

London School of Economics

2023-24

Co-convenor with Dr Friedrich Geiecke

MY470: Computer Programming
Seminar Teacher (Convenor Dr Milena Tsvetkova)

London School of Economics

MY461: Social Network Analysis

Lecturer & Seminar Teacher (Convenors Dr Eleanor Power & Dr Milena Tsvetkova)

London School of Economics

Lecturer & Seminar reactier (Convenors Dr Lieanor rower & Dr Ivineira Isvetkova)

2021-24

2021-24

MY472: Data for Data Scientists

Seminar Teacher (Convenor Dr Friedrich Geiecke)

London School of Economics 2021-22

MY452: Applied Regression Analysis

Seminar Teacher (Convenor Dr Daniele Fanelli)

London School of Economics

- Designed and delivered lecture content, class materials, and assessments for these undergraduate (CMM2/3) 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

GESIS Fall Seminar, Mannheim

Co-convenor with Dr Milena Tsvetkova

Week-long intense course for graduate students and professionals.

September 2022

Teaching Assistant - Online Social Networks

Convenor: Dr Bernie Hogan

Oxford Internet Institute
January–March 2018 & 2019

MSc and PhD level course

Teaching Assistant - Python for Social Data Science

Oxford Internet Institute

Convenor: Dr Bernie Hogan MSc Social Data Science, DPhil Information, Communication and the Social Sciences

October-November 2018

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

Oxford Internet Institute
October–December 2017

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

 Assisted in the design of class materials, running of hands-on labs, marking and providing feedback for assignments across these three courses. Conducted course administration through Canvas and GitHub platforms.

Teaching Assistant - Social Network Analysis

Oxford Summer School in Economic Networks

Convenor: Prof Taha Yasseri

June 2017

Assisted in the provision of hands-on labs for researchers from a wide range of disciplines & career stages.

Graduate Supervision

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

J Chen

MSc Applied Social Data Science

2024

Public Attitudes Towards Foreign Trade During the US-China Trade

War: a Reddit Case Study

MSc Applied Social Data Science

Measuring the comment gap: A machine learning and quantitative text analysis approach to studying news media user comments

F Böwing. Best dissertation prize.

MSc Applied Social Data Science

Postpartum Depression: Analyzing Reddit Social Media Behaviour for Deepening Understanding and Early Detection - A Quantitative Text

Analysis and Machine Learning Approach

MSc Applied Social Data Science

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

Document Embeddings

MSc Applied Social Data Science

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

Denmark M Feldman

A Harre

V Finsterwald

L Fung

MSc Applied Social Data Science

2022

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

University of Exeter 2025-Present

Institute for Data Science and Artificial Intelligence

University of Warwick

Department of Politics and International Studies

2024-Present

Director - The Critical AI Centre (CrAIC)

University of Exeter 2024-Present

Employability Representative

External Examiner

Department of Communications, Drama, and Film

University of Exeter 2024-Present

Programme Committee - International Conference on Computational Social Science

Organizing Committee: Prof Dan Hopkins, Prof Xi Song

Philadelphia

Programme Committee - Wiki Workshop 2023, 2024

July 2024

Organization: Wikimedia Foundation

Online May 2023, 2024

Programme Committee - ACM Hypertext

Rome

Organizing Committee: Dr Alessio Antonini, Dr Francesca Benatti

September 2023

Programme Committee - NetSciX

Santiago

Organizing Committee: Dr Bruno Gonçalves, Prof Leo Ferres, Dr Javier Bustos-Jiménez

January 2019

BA, MMath in Mathematics, Mathematics & Statistics, Mathematics & Computer Science

Somerville College, University of Oxford December 2018, 2019

Chair

Oxford Internet Institute

Graduate Joint Consultative Committee

October 2018-2019

Oxford Internet Institute

Student Representative Research Committee, Graduate Studies Committee

November 2017-November 2018, February 2018-June 2019

Conference Presentations and Invited Talks

International Conference on Computational Social Science 2024

UPenn, Philadelphia

July 2023

Oral Presentation

Oral Presentation

The News Comment Gap and Algorithmic Agenda Setting in Online Forums

International Conference on Computational Social Science 2023

University of Copenhagen

July 2023

J

depths of wikipedia: Understanding Cross-Platform Online Attention, Content Creation, and Success

Wiki Workshop 2023 Online [recorded]

Oral Presentation May 2023

depths of wikipedia: Understanding Cross-Platform Online Attention, Content Creation, and Success

Wikimedia Research Showcase Online [recorded]

Invited Talk August 2020

What matters to us most and why? Studying popularity and attention dynamics via Wikipedia navigation data

External Seminar Series National Institute of Informatics, Tokyo

Invited Talk

How Does News Become History? Using Wikipedia, Network Science, and Time Series Analysis to Understand the

Chronicling of Collective Memory

NetSciX 2020 Waseda University, Tokyo

Oral Presentation January 2020

Navigating Historical Events through Wikipedia's Link Structure: A Comparative Analysis of Article Networks in 6 Language Editions

NetSciX 2020 Waseda University, Tokyo

Poster Presentation January 2020

Bridging the Floating Gap: How News Events Build Networks of Collective Memory on Wikipedia

TORCH PastNet Hackathon University of Oxford

Invited Talk May 2019

Using Wikipedia and Networks to Study the Recording of History

Conference on Complex Systems 2018

Aristotle University of Thessaloniki

Oral Presentation September 2018

The Interplay of Internal and External Traffic on Online Networks in the Prediction of Collective Attention

Computational Social Science Satellite @ CCS2018

Aristotle University of Thessaloniki

Oral Presentation September 2018

Computational Romance: What Matters for Personal and Public Perceptions of Attractiveness in Online Dating?

International Conference on Complex Networks

Northeastern University, Boston

March 2018

July 2017

Oral Presentation & Publication
Inspiration, Captivation, and Misdirection: Emergent Properties in Networks of Online Navigation

inspiration, Captivation, and Misurection. Emergent 1 roperties in Networks of Online Navigation

International Conference on Computational Social Science GESIS, Cologne

Poster Presentation
Order in User Navigational Structures on Wikipedia

Data Natives City University of London

Oral Presentation May 2017

Order in User Navigational Structures on Wikipedia

Research Positions

Research Assistant - Computational Romance Project

Oxford Internet Institute

June-September 2018

Principal Investigator: Dr Taha Yasseri

o A three month position studying the dating preferences of more than 100,000 users of eHarmony.com over 10 years.

Intern - Central Laser Facility

Rutherford Appleton Laboratory, Harwell

Supervisors: Prof Peter Norreys, Prof David Neely

August-September 2014

• Thermodynamic modelling for the lifetime optimisation of ultra-thin cryogenic hydrogen targets used in ion acceleration experiments with the PetaWatt VULCAN laser, with the results used to make experimental alterations.

Awards and Grants

ADA Strategic Funding
University of Exeter

£6000 2025

Excellence in Education Award London School of Economics and Political Science

£1000 x2 2022, 2023

TORCH PastNet Bursary University of Oxford

£200 2020

Green Templeton College Competitive Conference and Fieldwork Funding

University of Oxford

£830 2018, 2020

Oxford Internet Institute Academic Scholarship $\pounds 1464$ University of Oxford 2019

£1464 2019

DPhil Studentship
£14,500 annually
2016-2020

Worcester College Academic Scholarship University of Oxford

2015

Media Appearances

Wikimedia Research Showcase

Collective Attention Across Wikipedia and the Web January 2025

Wikimedia Research Showcase

Navigation, Networks, News, Wikipedia August 2020

Oxford Sparks Big Questions Podcast

Can data find me a date? February 2020

BBC News

Hot or not: Does rating yourself highly get you more dates?

October 2018

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.
- o **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.