

Patrick Gildersleve

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Summary: *I am a rising 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, as well as collective attention, memory, and action.*

Current Position

LSE Fellow in Computational Social Science

Department of Methodology

London School of Economics

September 2021–Present

- Post-doctoral independent research and teaching role, including supervision of MSc dissertations.
- Primarily focused on refining DPhil thesis work for publications, as well as developing new projects and collaborations.

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

University of Oxford

2012–2016

Master's Project: *A Data De-anonymization 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 2023

P Gildersleve

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

Measuring the Comment Gap: A Machine Learning and Quantitative Text Analysis Approach to Studying News Media User Comments 2023

F Böwing, P Gildersleve

Working Paper. 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 AAI 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

Conference Presentations and Invited Talks

International Conference on Computational Social Science 2023 <i>Oral Presentation</i> 'depths of wikipedia: Understanding Cross-Platform Online Attention, Content Creation, and Success'	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 January 2020
NetSciX 2020 <i>Poster Presentation</i> 'Bridging the Floating Gap: How News Events Build Networks of Collective Memory on Wikipedia'	Waseda University, Tokyo January 2020
TORCH PastNet Hackathon <i>Invited Talk</i> 'Using Wikipedia and Networks to Study the Recording of History'	University of Oxford May 2019
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 September 2018
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 September 2018
International Conference on Complex Networks <i>Oral Presentation & Publication</i> 'Inspiration, Captivation, and Misdirection: Emergent Properties in Networks of Online Navigation'	Northeastern University March 2018
International Conference on Computational Social Science <i>Poster Presentation</i> 'Order in User Navigational Structures on Wikipedia'	GESIS, Cologne July 2017
Data Natives <i>Oral Presentation</i> 'Order in User Navigational Structures on Wikipedia'	City University of London May 2017

Awards and Grants

Excellence in Education Award £1000 x2	London School of Economics and Political Science 2022, 2023
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
Worcester College Academic Scholarship	University of Oxford 2015

Teaching Positions

MY470: Computer Programming <i>Course Convenor: Dr Milena Tsvetkova</i> MSc and PhD level course	London School of Economics 2021-23
MY461: Social Network Analysis <i>Course Convenors: Dr Eleanor Power & Dr Milena Tsvetkova</i> MSc and PhD level course	London School of Economics 2021-23
MY472: Data for Data Scientists <i>Course Convenor: Dr Friedrich Geiecke</i> MSc and PhD level course	London School of Economics 2021-22
MY452: Applied Regression Analysis <i>Course Convenor: Dr Daniele Fanelli</i> MSc and PhD level course	London School of Economics 2021-22
<ul style="list-style-type: none">o Designed and delivered lecture content, class materials, and assessments. Held weekly seminars, marked and provided feedback for assignments and exams across these four courses.o Conducted course administration through Moodle and GitHub platforms.	
Introduction to Computational Social Science with Python <i>Co-convenor: Dr Milena Tsvetkova</i> Week-long intense course for graduate students and professionals.	GESIS Fall Seminar, Mannheim September 2022
Teaching Assistant – Online Social Networks <i>Course Convenor: Dr Bernie Hogan</i> MSc and PhD level course	Oxford Internet Institute January–March 2018 & 2019
Teaching Assistant – Python for Social Data Science <i>Course Convenor: Dr Bernie Hogan</i> MSc Social Data Science, DPhil Information, Communication and the Social Sciences	Oxford Internet Institute October–November 2018
Teaching Assistant – Scripting for Social Scientists (Python) <i>Course Convenor: Dr Bernie Hogan</i> MSc Social Science of the Internet, DPhil Information, Communication and the Social Sciences	Oxford Internet Institute October–December 2017
<ul style="list-style-type: none">o Assisted in the design of class materials, running of hands-on labs, marking and providing feedback for assignments across these three courses.o Conducted course administration through Canvas and GitHub platforms.	
Teaching Assistant – Social Network Analysis <i>Course Convenor: Prof Taha Yasseri</i>	Oxford Summer School in Economic Networks June 2017
<ul style="list-style-type: none">o Assisted in the provision of hands-on labs for researchers from a wide range of disciplines & career stages.	

Graduate Supervision

Measuring the comment gap: A machine learning and quantitative text analysis approach to studying news media user comments <i>Flora Böwing. Distinction. Best dissertation prize.</i>	MSc Applied Social Data Science 2023
Postpartum Depression: Analyzing Reddit Social Media Behaviour for Deepening Understanding and Early Detection – A Quantitative Text Analysis and Machine Learning Approach <i>Valerie Finsterwald. Distinction</i>	MSc Applied Social Data Science 2023
Making sense of the Danish ‘Climate Election’ using word and document embeddings <i>Asmus Harre. Distinction</i>	MSc Applied Social Data Science 2022
The Ties that Bind: A social network analysis of cultural capital in Denmark <i>Miriam Feldman. Merit</i>	MSc Applied Social Data Science 2022

Research Positions

Research Assistant – Computational Romance Project

Principal Investigator: Dr Taha Yasseri

Oxford Internet Institute

June–September 2018

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

Intern – Central Laser Facility

Supervisors: Prof Peter Norreys, Prof David Neely

Rutherford Appleton Laboratory, Harwell

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.

Service Responsibilities

Journal & Conference Reviewer – International AAAI Conference on Web and Social Media, EPJ Data Science, EPJ B, PLOS ONE

Programme Committee – ACM Hypertext

Organizing Committee: Dr Alessio Antonini, Dr Francesca Benatti

Rome

September 2023

Programme Committee – Wiki Workshop 2023

Organization: Wikimedia Foundation

Online

May 2023

Programme Committee – NetSciX

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

Santiago

January 2019

Assistant Interviewer

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

Somerville College, University of Oxford

December 2018, 2019

- I assisted in developing interview questions, interviewing undergraduate applicants, note-taking in interviews, and assessing candidates based on interview performance, application quality, and sociodemographic factors.

Chair

Graduate Joint Consultative Committee

Oxford Internet Institute

October 2018–2019

- Elected to act as a prime point of communication between staff and students for all education related matters.

Student Representative

Research Committee, Graduate Studies Committee

Oxford Internet Institute

November 2017–November 2018, February 2018–June 2019

- Representing student matters in shaping the department's research strategy, leading up to the UK's REF 2021.
- Relaying results of key discussions at GJCC meetings to the departmental Graduate Studies Committee.

Media Appearances

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.
- **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.