

Ayan-Yue Gupta

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Education

PhD Sociology – Thesis Title: *BERT for Discourse Analysis: A Pragmatist Approach to Governmentality* September 2018 – March 2023

University of Bristol – School of Sociology, Politics and International Studies

- Supervisors: Prof. Thomas Osborne, Dr. Leonidas Tsilipakos, Prof. Gregor McLennan
- Examiners: Prof. Roberto Franzosi, Prof. Jonathan Joseph
- Thesis Description: I used word sense induction via BERT to understand the diffusion of discourses surrounding ‘resilience’, ‘sustainability’ and ‘wellbeing’ into the British state during 2000-2020. To interpret the results of this, I developed a theoretical framework that draws upon pragmatics, Foucauldian work on governmentality and sociolinguistics.

MA Fine Art

University College London – Slade School of Fine Art

September 2014 – September 2016

BA Art History and Philosophy

University of Leeds

September 2011 – July 2014

Academic Work Experience

Graduate Teacher

University of Bristol – School of Sociology, Politics and International Studies

September 2019 – Present

Modules taught:

- Introduction to the Sociology of Culture
- Thinking Sociologically (Introductory sociology module)
- Doing Social Research (Ethics and methodology module)
- Political Concepts (Political philosophy module)
- Thinking Politically (Introductory politics module)

Graduate Teacher

University of Bath – Department of Politics, Languages and International Studies

January 2023 – Present

Modules taught:

- International Political Economy

I would also be comfortable teaching modules on quantitative/computational social science methods, discourse analysis, social theory and philosophy of sociology.

Publications

(Submitted to the *Journal of Computational Social Science*). Gupta, A. (2023). Polysemy and the Sociolinguistics of Policy Ideas: Resilience, Sustainability and Wellbeing 2000 – 2020.

Gupta, S., Allen, R., Basu, M., Durão, F., Gupta, A., Katsarka, M., Schuller, S., Seed, J., Tu, P. (2020). *Social Analysis and the Covid-19 Crisis*. Routledge: London.

Gupta, S. & Gupta, A. (2019). 'Resilience' as a Policy Keyword: Arts Council England and Austerity. *Policy Studies*, DOI: 10.1080/01442872.2019.1645325

Conferences & Workshops

Gupta, A. (17th – 20th July 2023). Poster Presentation: The Sociolinguistics of Policy Idea Propagation: Resilience, Sustainability and Wellbeing 2000 - 2020. *9th International Conference on Computational Social Science*.

Gupta, A. (2nd – 3rd June 2023). Presentation: Using Large Language Models to Capture Variation in the Meaning of Catchwords: Resilience, Sustainability and Wellbeing. *Open University Language, Literature and Politics Group Workshop – Political Catchwords in Our Time: Texts and Contexts*.

Gupta, A. (3rd – 5th April 2023). Presentation: Computational Foucauldian Analysis: BERT as a Tool for Examining Governmental Discourse. *73rd Political Studies Association Annual International Conference*.

Other Contributions

[Contributor](#) to open-source computational text analysis tool [NLP Suite](#), March 2023 – Now and open source tool run by Prof. Roberto Franzosi designed to make natural language processing accessible to social scientists and humanists not familiar with computational methods.

Skills

Computational Skills: I am familiar with using computer languages and software libraries to perform machine learning, data/statistical analysis, web scraping, constructing and managing datasets and using APIs.

- **Computer Languages:** Python, R, SQL, SPARQL
- **Software Libraries:** transformers, PyTorch, SpaCy, NetworkX, scikit-learn, SciPy, numpy, statsmodels, matplotlib, seaborn, NLTK, pandas

Collegial Skills: During my time at Bristol I have been an active member of the postgraduate research (PGR) community, through which I have developed community building skills. I have:

- Co-organised PGR seminars during 2019-2020 in which PhD students presented their research.

- Co-organised PGR networking events during 2019-2022 funded by the South West Doctoral Training Partnership for students across multiple departments.
- Acted as a PGR representative between 2018-2019, bringing up concerns of the PGR community to departmental meetings.

Before starting my PhD I was a practising artist in London, through which I have built up experience doing public engagement with non-academic audiences. I list my experience as a practising artist below.

Art

Commissioned by General Electric to produce 5 looping animations. September 2018 – June 2019
 The purpose of these animations is to visualise the systems of autonomous machines that might one day constitute the Internet of Things. In these systems, each machine can communicate and harvest data from each other and use that data to continuously update themselves and the objects they manufacture:
https://ayanyuegupta.github.io/immortal_machine.html

Exhibitions

Traces, Workhouse Studios	2017
A Somersault and a Back Flip, Workhouse Studios	2016
Art Attack App Winter Exhibition, Crypt Gallery	2016
Housework, Workhouse Studios	2016
MA/MFA/PhD Degree Show, Slade School of Fine Art	2016
Interim Show, Slade School of Fine Art	2015
ING Discerning Eye, Institute of Contemporary Art	2014
Gaze, Espacio Gallery	2014
Contrasts, Espacio Gallery	2014
Spectacle, Vyner Street Gallery	2013

Awards & Residencies

Zarakes Residency	2016
Jeremy Cubitt Prize for Excellence in Painting, Slade School of Fine Art	2015

Other Work Experience

Freelance Tutor

September 2015 –

Have been represented by Bumblebee Tutoring and JK Educate. August 2018

Provided one-to-one tuition to school children aged 11-18. Have tutored:

- A-level, GCSE and 11+ Maths
- A-level, GCSE and 11+ English
- A-level Philosophy
- 11+ Verbal and Non-Verbal Reasoning

Tutor at Learning Source Hounslow

November 2016 – July

Taught classes of up to 6 children aged 6-16. Taught 11+, secondary school level and GCSE Maths and English. 2017