

# Gökhan Çiflikli, Ph.D.

[www.gokhan.io](http://www.gokhan.io)

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## EDUCATION

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- **London School of Economics** London, UK  
*Ph.D. in International Relations* *Sep. 2014 – Sep. 2018*
- **Uppsala University** Uppsala, Sweden  
*Master of Social Science in Peace and Conflict Studies* *Aug. 2010 – June. 2012*

## EXPERIENCE

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- **UCDP** (Remote)  
*Data Scientist [R, Python]* *Jan 2019 - Present*
  - **Natural Language Processing:** I employ industrial solutions (SpaCy, quanteda) to tokenise unstructured, multilingual text mined from aggregated news sources over a span of 30 years.
  - **Quantitative Text Analysis:** I create actionable insights from tokenised text (~48 million) using named entity recognition, POS tagging, relationship extraction, and topic modelling.
  - **Supervised Learning:** I train ensemble models of binary- and multi-classification algorithms (Naive Bayes, Random Forest, Support Vector Machines, XGBoost) to automate labelling tasks.
  - **Active Learning:** I increase the predictive accuracy of the above models (~10%) by having human annotators validate the predictions at regular intervals using the Prodigy annotation tool.
- **London School of Economics** London, UK  
*Software Developer [R]* *Sep 2018 - Present*
  - **Text Analysis:** I am a member of the [quanteda](#) team, a popular R package (256K downloads; 16K/month) for text analysis alongside its sister packages spacyr, readtext, and stopwords.
  - **Software:** I work on a commercial, scalable (up to 1,000 users) graphical user interface (GUI) cloud application for the quanteda package using R-Shiny, AWS, and Docker technologies.
  - **Team Management:** I manage contracted R and JavaScript programmers (3-5) building the infrastructure via weekly video conferences and daily GitHub issue/milestone management.
- **Alan Turing Institute** London, UK  
*Software Developer [R, Python]* *Dec 2017*
  - **Predictive Modelling:** I built an interactive app for the UK Cabinet office for forecasting radical terrorism in the UK based on 300 profiles of convicted terrorists.
- **University College London** London, UK  
*Data Scientist [R]* *Sep 2015 - 2017*
  - **R package:** I designed an intuitive Random Forest fitter (RebelCast) for time-series-cross-section data to forecast escalation and severity of armed conflict which improves upon baseline models by 3%-26%.

## INTERACTIVE WEB APPS [R SHINY]

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- **Adavis:** I visualise political polarisation in the US Congress over the last 70 years based on voting patterns consisting of 36K roll-call votes. [\[App\]](#) [\[Code\]](#)
- **Gender Bias:** I break down the gender bias in a leading UK higher education institution reading list comprised of 13K publications finding a 80/20 divide favouring male authors. [\[App\]](#) [\[Code\]](#)

## EVENTS

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### 1st Computational Social Science (CSS) Hackathon, 17-19 April 2018 [\[Website\]](#)

- **Fund Raising:** As the founder of the CSS Society, I raised 10,000 GBP to fund a two-day hackathon in London, sponsored by the LSE, GitHub, Cambridge Spark, and R-Consortium.
- **Impact:** I organised workshops and talks by practitioners from Google, Alan Turing Institute, R-Ladies, XL Catlin, Oxera, and Zinc to an international audience of fifty hackers.

## AWARDS

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- **University of California, Berkeley Bursary:** Ph.D. Mobility Program. 2016. *2,300 GBP*.
- **Michael Leifer Ph.D. Scholarship:** LSE. 2014-2017. *100,000 GBP*.
- **Facilitating Data Visualisation and Extraction: A New Interface for the UCDP:** Collaborator. RJ. 2014. *2.4 million SEK (~211,000 GBP)*.

## SKILLS

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- **Programming:** R (developer), Python (advanced), SQL/Postgres (advanced)
- **Statistics:** Stata, SPSS (instructor)
- **Languages:** English, Turkish **Front-end:** HTML, CSS,  $\text{\LaTeX}$
- **Presentation:** RMarkdown, Reveal.js **Interactive:** Shiny

Last updated on April 18, 2019