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# Phil Smith's Projects 2023/24

Natural Language Processing

<https://www.cs.bham.ac.uk/~smithpm/student-projects.html>



# Project Interests 2023/34

- Large Language Models
  - Investigation of \*GPT\*, LLaMA, PaLM, Huggingface, etc...
  - Applications
    - Many application areas...
  - Fine-tuning
  - Theories of Mind in Large Language Models
  - Explainability
  - Debiasing
  - Temporal effects on model performance



# More Project Ideas

- **Fact-checking of text**
  - Check-worthiness, subjectivity, political bias, factuality, authority finding
- **Early risk prediction for x**
  - depression, gambling addiction, eating disorders, etc
- **Sexism identification in social networks**
  - Identification, source intention, categorisation
- **Wordplay analysis**
  - Pun detection, interpretation, translation
- **Sentiment change over time**
- **Simplification of scientific texts**
- **Text forensics and stylometry**
  - Cross-discourse authorship verification, influencer identification, multi-author style analysis, trigger detection
- **Discourse and argumentation**
  - Detecting category, framing, persuasion techniques, identification of human values
  - Clickbait spoiling
  - Understanding legal texts
- **Social attitudes**
  - Intimacy analysis
  - Learning from disagreement
  - Sentiment analysis of low-resource languages



Interested? Put “Phil Smith” as one of your supervisor choices.



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