

Michael Mourounas

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EMPLOYMENT

COMPUTATIONAL LINGUIST | VANTAGE LABS

2019 – Present | New Hope, PA

- Improved and maintained rule-based Grammar Error Correction (GEC) engine based on client and stakeholder feedback.
- Collected and curated natural language data for various NLP components across multiple products.
- Evaluated rule-based and statistical language components using industry-standard benchmarks and metrics.

POST-GRADUATE TEACHING ASSOCIATE | UCL

2015 – 2019 | London, UK

- Designed and implemented undergraduate instruction in the area of theoretical syntax.
- Carried out formal marking of student assessment under the directive of the host university.

PRIVATE ENGLISH TUTOR/AU PAIR | TYROL, AUSTRIA

2013 – 2014 | Innsbruck, AT

- Created and administered bespoke English language instruction for children aged 4-7.
- Completed state-mandated German language course, up to the level of Goethe-Zertifikat B1.

NOTEABLE PROJECTS

LARGE-SCALE DATA ANNOTATION/CURATION

- Took ownership of sourcing and curating CoNLL-U formatted data sets for training and evaluation of dependency parse model.
- Performed automatic data transformation (e.g., tag mapping, error identification/repair, etc.) with Python scripts.
- Led manual annotation efforts by configuring an internal WebAnno server and curating team annotations.

MEMM POS TAGGER OPTIMIZATION

- Integrated open-source maximum entropy POS tagger into existing Java code within the GEC engine.
- Optimized training features through experimentation to ensure accurate tagging in the novel environment of error-rich text.
- Performed iterative data collection/transformation for model evaluation and re-training.

TECHNICAL DEBT REDUCTION

- Created tasks for unit/integration test creation on a sprint-by-sprint basis in order to address gaps in code coverage.
- Designed and instituted maintainable unit testing practices from development (JUnit) to deployment (Maven/TeamCity).

SKILLS: Experienced presenter, professional writing skills, analytical problem solver, effective communicator.

ACTIVITIES: Website design, painting/illustration, baseball, music (guitar/voice).

PUBLICATIONS: mikemourounas.github.io/pubs

EDUCATION

PH.D. IN LINGUISTICS

June 2019 | University College

London, UK

Thesis: 'Nominalisation and Inherent Control'

M.A. IN LINGUISTICS

July 2015 | University College

London, UK

4.0 GPA, Thesis: 'Event Structure Constraints on the English Double Object Construction'

B.A. IN ENGLISH

July 2012 | Rutgers University, NJ USA

3.4 GPA

PROGRAMMING

LANGUAGES

Java

Python

Bash

DEVELOPMENT

IntelliJ, TeamCity, GIT, JUnit,

Maven, Docker, Agile/Scrum

NLP

Stanford CoreNLP

NLTK

Apache OpenNLP

Lucene

DATA

Brat, WebAnno, AWS GroundTruth,

PostgreSQL, SQLite

OS

Unix

Windows

NAT LANGS

English (Native)

German (Proficient)

Italian (Intermediate)

Greek (Basic)