

Zoe Kotti

DATA SCIENTIST · PHD CANDIDATE

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Work Experience

Research Engineer

DELIVERY HERO

Worked on machine-learning-based recommendation systems and their performance analytics.

Athens, Greece

Aug 2023–Jan 2024

Associate Researcher

ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS, BALAB

Project: Fine-Grained Analysis of Software Ecosystems as Networks (FASTEN)

Supervisor: Prof. Diomidis Spinellis

Athens, Greece

June 2020–June 2022

Teaching Assistant

ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS | DELFT UNIVERSITY OF TECHNOLOGY | DELFTX-EDX

Courses:

- *Software Engineering in Practice*, Spring 2021–23, AUEB (Undergraduate level)
- *Unix Tools: Data, Software and Production Engineering*, 2020–23, DelftX-edX (Intermediate level)
- *Software Architecture*, Spring 2022, TUDelft (Graduate level)

2020–2023

Data Scientist

FREELANCE PROJECT

The project involved cleaning, transforming, and analyzing gym customer data with Python to conduct cohort analyses. Also, tutoring services in Data Science were provided.

Athens, Greece

Feb 2023–Mar 2023

Researcher

ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS, BALAB

Project: Developer-centric Knowledge Mining from Large Open-source Software Repositories (CROSSMINER)

Supervisor: Prof. Diomidis Spinellis

Athens, Greece

July 2019–Dec 2019

Back-end Developer Intern

ISMOOD DATA TECHNOLOGY SERVICES

Worked on a project regarding the implementation of lexicon-based sentiment analysis on Greek text data. Particularly, I constructed a Greek lexicon annotated with sentiment, and an algorithm for the application of sentiment analysis. The technologies used were MongoDB and Python 2.7.

Athens, Greece

Mar 2019–Jun 2019

Education

PhD in Machine Learning and Software Engineering

ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS

Supervisor: Prof. Diomidis Spinellis

Scholarship award from the Hellenic Foundation for Research and Innovation

Completed graduate and online coursework: *Applied Machine Learning, Deep Learning, Natural Language Processing, Hugging Face NLP Course, ChatGPT Prompt Engineering for Developers, Unix Tools: Data, Software and Production Engineering, Research Methodology*

Athens, Greece

2020–2024 (expected)

BSc in Management Science and Technology

ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS

Grade: 8.91/10.0 (“Excellent”)

Thesis: *Implementation of Lexicon-based Sentiment Analysis on Greek Text Data*

Supervisor: Prof. Diomidis Spinellis

Athens, Greece

2015–2019

Honors and Awards

2022–2023 **PhD Scholarship Award**, Hellenic Foundation for Research and Innovation

Athens, Greece

2022 **ACM SIGSOFT CAPS Grant**, ICSE '22

Pittsburgh, USA

2022 **ACM SIGSOFT Support Grant**, Student Mentoring Workshop at ICSE '22

Pittsburgh, USA

2021 **ACM SIGSOFT Distinguished Service Award**, ESEC/FSE '21 Web Co-Chair

Online

2019 **ACM SIGSOFT Distinguished Paper Award**, *Standing on shoulders or feet? The usage of the MSR data papers*

Montreal, Canada

2019 **ACM SIGSOFT CAPS Grant**, ICSE '19

Montreal, Canada

2019 **Research Scholarship Award**, General Secretariat for Research and Innovation

Athens, Greece

Conference Committee Service

Organizing Committees

- MSR '24: Proceedings Co-Chair
- ESEC/FSE '21: Web Co-Chair (ACM SIGSOFT Distinguished Service Award)

Program Committees

- ICSME '23: Artifact Evaluation and ROSE Festival PC Member
- ICSE '23: Artifact Evaluation PC Member
- MSR '22: Shadow PC Member
- MSR '21: Mining Challenge PC Member

External Review Committees

- ISSTA '22: External Reviewer in Technical track

Panel Sessions

- ESEC/FSE '21: Panelist of Mini-panel on *Human Aspects—Research Trends in Software Engineering*
- ESEC/FSE '21: Session Chair of Ask Me Anything in *Diversity and Inclusion Events*

Volunteering

- ICSE '22: In-Person Student Volunteer
- SPLASH '19: Student Volunteer

Competition Participation

World of Code Hackathon 2022

UNIVERSITY OF TENNESSEE, CARNEGIE MELLON UNIVERSITY, UNIVERSITY OF TARTU

Pittsburgh, USA

May 21–22, 2022

Group project: *Contributor analysis in enterprise-driven OSS projects*

The purpose of this project was to analyze the influence of non-enterprise-affiliated contributors to enterprise-driven OSS projects. Particularly, we aimed to investigate the following project characteristics from contributors' perspective: commit frequency, contribution size, and activity distribution.

Skills

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|------------------------------|--|
| Programming (4 years) | Python (expert), Java (intermediate), Shell Scripting (expert), SQL (expert), MongoDB (intermediate), LaTeX (expert) |
| Frameworks (4 years) | Pandas, Scikit Learn, TensorFlow, Keras, PyTorch, MLflow |
| Cloud technologies | Google Cloud Platform |
| Languages | Greek (native), English (C2), French (B2) |

Publications

Peer-reviewed Journal Articles

- Artun Boz, Wouter Zorgdrager, **Zoe Kotti**, Jesse Harte, Panos Louridas, Dietmar Jannach, and Marios Fragkoulis. Improving Sequential Recommendations with LLMs. *arXiv*, February 2024. arXiv:2402.01339.
- **Zoe Kotti**, Georgios Gousios, and Diomidis Spinellis. Impact of software engineering research in practice: A patent and author survey analysis. *IEEE Transactions on Software Engineering*, 49(4):2020–2038, April 2023. doi:10.1109/TSE.2022.3208210. (JCR Impact Factor: 6.226)
- **Zoe Kotti**, Rafaila Galanopoulou, and Diomidis Spinellis. Machine Learning for Software Engineering: A tertiary study. *ACM Computing Surveys*, 55(12):1–39, March 2023. doi:10.1145/3572905. (JCR Impact Factor: 14.32)
- Georgios Liargkovas, Angeliki Papadopoulou, **Zoe Kotti**, and Diomidis Spinellis. Software engineering education knowledge versus industrial needs. *IEEE Transactions on Education*, 65(3):419–427, August 2022. doi:10.1109/TE.2021.3123889. (JCR Impact Factor: 2.116)
- **Zoe Kotti**, Konstantinos Kravvaritis, Konstantina Dritsa, and Diomidis Spinellis. Standing on shoulders or feet? An extended study on the usage of the MSR data papers. *Empirical Software Engineering*, 25(5):3288–3322, July 2020. doi:10.1007/s10664-020-09834-7. (JCR Impact Factor: 3.156)

Conference Publications

- Diomidis Spinellis, **Zoe Kotti**, and Audris Mockus. A dataset for GitHub repository deduplication. In *17th International Conference on Mining Software Repositories*, MSR '20, pages 523–527, New York, NY, USA, June 2020. Association for Computing Machinery. doi:10.1145/3379597.3387496. (CORE Rank: A, Acceptance Rate: 44%)
- Diomidis Spinellis, **Zoe Kotti**, Konstantinos Kravvaritis, Georgios Theodorou, and Panos Louridas. A dataset of enterprise-driven open source software. In *17th International Conference on Mining Software Repositories*, MSR '20, pages 533–537, New York, NY, USA, June 2020. Association for Computing Machinery. doi:10.1145/3379597.3387495. (CORE Rank: A, Acceptance Rate: 44%)
- Audris Mockus, **Zoe Kotti**, Diomidis Spinellis, and Gabriel Dusing. A complete set of related git repositories identified via community detection approaches based on shared commits. In *17th International Conference on Mining Software Repositories*, MSR '20, pages 513–517, New York, NY, USA, June 2020. Association for Computing Machinery. doi:10.1145/3379597.3387499. (CORE Rank: A, Acceptance Rate: 44%)
- **Zoe Kotti** and Diomidis Spinellis. Standing on shoulders or feet? The usage of the MSR data papers. In *16th International Conference on Mining Software Repositories*, MSR '19, pages 565–576, Piscataway, NJ, USA, May 2019. IEEE Press. ACM SIGSOFT Distinguished Paper Award. doi:10.1109/MSR.2019.00085. (CORE Rank: A, Acceptance Rate: 25%)