Mete Saka

+1 (303) 877 00 22 | saka@mines.edu | linkedin.com/in/umsaka | metesaka.com

PhD student in Computer Science specializing in knowledge graphs, data management, and cyber-physical systems. Experienced in machine learning, databases, and large-scale data systems.

EDUCATION

Ph.D, Computer Science	Golden, CO
Colorado School of Mines, GPA:3.7	*Aug 2024 – Present*
M.Sc., Computer Science	Golden, CO
Colorado School of Mines, GPA:3.7	*Aug 2022 – Aug 2024*

Thesis: Workload-Driven Data Partitioning For Data Intensive Serverless Computing

B.Sc., Industrial Engineering	Istanbul, TR
Bogazici University	*Sep 2018 – Jan 2022*

EXPERIENCE

Colorado School of Mines	Golden, CO
Research Assistant	*Jan 2022 – Present*

- Current research is on knowledge graphs, databases and data management technologies.
- Currently working on enabling data science in Cyber-Physical systems, especially on buildings and water treatment plants.
- Previously, worked as a Research Assistant in an NSF funded project on Illicit Gold and Mercury Supply Chains, led by Dr. Sebnem Duzgun and Dr. Nicole Smith, which resulted in 4 peer-reviewed journal publications.

Adjunct Professor	*Aug 2023 – Dec 2024*

- Instructor of **CSCI 470/575 (Machine Learning)** class in Fall 24.
- Instructor of 3 sections of **CSCI 128 (Computer Science for STEM)**, a core curriculum class in Fall'23 and Spring'24 semesters.
- Received high teaching evaluation scores (10% above school and department average) from my students.

Teaching Assistant	*Jan 2023 – Dec 2024*

- Teaching assistant of CSCI 598C (Advanced Data Systems), a graduate level seminar class, CSCI 406 (Algorithms), a senior level CS curriculum class.
- Contributed the development of CSCI 128 (Computer Science for STEM), an introductory CS course by creating and improving teaching material.

Marsh McLennan Companies	Istanbul, TR
Risk Analyst Assistant	*Feb 2021 - Dec 2021*

- Collaborated projects on Risk Analysis, Cyber Risk Consulting, Risk Quantification, Risk Financing Optimization and Benchmarking

MISCELLANEOUS

Selected Publications

- **Saka,U.M.**, Pacheco-Hague,K., Duzgun,S., Smith,N., An analysis of the impact of CO^2 emissions from deforestation and mining in Madre de Dios, Perú. Extractive Industries and Society, 2024
- **Saka,U.M.**, Duzgun,S., Bazilian,M., Analysis of World Trade Data with Machine Learning to Enhance Policies of Mineral Supply Chain Transparency, Resources Policy, Volume 89, 2024
- Smith, N.M., Seguin, K., **Saka, U.M.**, Duzgun, S., Smith-Roberts, A., Soud, D. and White, J., Gold Supply Chain Opacity and Illicit Activities: Insights from Peru and Kenya, Journal of Illicit Economies and Development, 2024

Skills

- **CS:** Git, C, C++, Java, LaTeX, Python, Rust, R, PyTorch, Pandas, Polars, Sklearn, Tensorflow, GCP, AWS, Docker, Kubernetes, RDF, SPARQL, Grafana, MQTT, EnergyPlus, SQL
- **Soft Skills:** Teaching, Mentorship, Technical Writing, Public Speaking, Curriculum Development

Awards, Scholarships, Fellowships

- Google Summer of Code, Contributor, 2024
- Judge, Congressional App Challenge. District Judge of CO Congressional district-07, 2023 - 2024
- McQuiston Fellowship, 2023 - 2024
- C-MAPP Scholarship, 2023 - TIAA - 2024 - OMBUD
- Turkish Merit Based Scholarship, Awarded to top 100 students among 2M by Republic of Turkey, 2016