# Muhammad Zuhdi Fikri Johari

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| Research Interest | Data Engineering, Data Discovery, Information Extraction, Natural Language Processing, Geospatial Data Processing, Software Engineering |

**Education**

**Universitas Amikom Yogyakarta**, DI Yogyakarta, Indonesia  2022-2025 (*expected*)
Bachelor of Informatics
Specialization: Data Engineering, Software Engineering, GIS, NLP
GPA: Overall 3.90/4.0

**Universitas Amikom Yogyakarta**, DI Yogyakarta, Indonesia  2018-2021
Associate of Informatics Engineering
Specialization: Recommender Systems (NLP), Data Engineering
GPA: Overall 3.95/4.0

**Selected Publications**

Kumara Ari Yuana, Kusrini Kusrini, Arief Setyanto, Arif Dwi Laksito, Zauvik Rizaldi Maruf, **Muhammad Zuhdi Fikri Johari**, et al. *GIS data support technique for forest fire management and decision support system: A Sebangau National Park, Kalimantan case.* 6th International Conference on Information and Communications Technology, 2023 (ICOIACT '23).

Arif Dwi Laksito, Kusrini Kusrini, Arief Setyanto, **Muhammad Zuhdi Fikri Johari**, et al. *Machine Learning and Social Media Harvesting for Wildfire Prevention.* 13th International Conference on Pattern Recognition Systems, 2023 (ICPRS '23).

Kumara Ari Yuana, Kusrini Kusrini, Arief Setyanto, Arif Dwi Laksito, Zauvik Rizaldi Maruf, **Muhammad Zuhdi Fikri Johari**, et al. *Monte Carlo Method For Map Area Calculation In Wildland Fire Map Management.* 6th International Conference on Information Technology, Information Systems and Electrical Engineering, 2022 (ICITISEE '23).

**Muhammad Zuhdi Fikri Johari** and Arif Dwi Laksito. *The Hybrid Recommender System of the Indonesian Online Market Products using IMDb weight rating and TF-IDF.* Rekayasa Sistem Dan Teknologi Informasi Journal, 2021 (RESTI): 5(5), 977 - 983.

**Research Involvement**

**International Research Collaboration on NLP-Data Collecting**  Nov 2022-Present
International undergraduate research collaboration on Natural Language Processing (NLP) .
- Collaborating with Prof. Derry Wijaya of Boston University, Dr. Kumara Ari Yuana, and Mr. Arif Dwi Laksito of Universitas Amikom Yogyakarta.
- International Research Collaboration on language preservation of Indonesian local languages through natural language processing research areas.
- Building platforms to support the efforts of Collecting and Digitizing the datasets of Indonesian Local Language Resources.
- Funded by the Indonesian Ministry of Education, Culture, Research, and Technology (MoECRT) ACE Open Research program, collaborating with the Indonesia Endowment Fund for Education (LPDP). Part of the US-Indonesia collaboration program.

**SILVANUS Project**  2022-2024
Part of the Amikom research team. Working as a Research Programmer.
- Project Leader: Prof. Kusrini of Universitas Amikom Yogyakarta.
- Research focuses on Computational Geo/Environmental Science for WildFire and Forest Management. Work with various data forms related to remote sensing and spatial-geography data processing. Research funded by EU Horizon 2020.
- Building the backend system side of: platforms to visualize the result of a Bayesian model from map area calculation; time series-based satellite raster image calculation processing for specific analysis.
- Building data pipeline processing to compile data comes from various type and source, such as WorldBank, ECMWF Copernicus, Dataspace Copernicus (Sentinel), USGS EO, etc.

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| Industry Experience | **PT Global Data Inspirasi (Datains)** | July 2021-Oct 2022 |

**PT Global Data Inspirasi (Datains)** — July 2021-Oct 2022
Data Engineer
- Being data provider for ML engineers, Data scientists, and Data analyst teams, ensuring the robustness of data pipeline and processing.
- Mainly working on data related with social media, geospatial, e-commerce, and social governmental.

**PT Global Data Inspirasi (Datains)** — Sept 2020-Jan 2021
Intern. Data Engineer
- Handled the data preparation steps for computer vision modeling tasks.
- Gained the basic data engineer task of integrating process from upstream to downstream with Extract-Transform-Load (ETL) concept.

**PT Digital Kreasi Mediatama (Digito)** — July 2020-Oct 2021
Freelance Script Writer
- Being part of the team who create the early concept of client company educational content.
- Translate any ideas coming from clients requirement into explanatory script and visualize it through storyline illustration.

**Teaching Experience**

AMIKOM DT019 Operating Systems, *Lab. Teaching Assistant* — Sept 2019-Feb 2020

**Community Involvement**

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| AMIKOM Assoc. Informatics Student Association, *Act. Lead RnD Division* | 2019-2021 |
| AMIKOM Islamic Student Unit, *Regeneration Division* | 2019-2021 |
| AMIKOM Ramadhan at Campus, *Lead Event Division* | April 2020 |
| AMIKOM Student Bootcamp, *Event Chairman & Mentor* | December 2019 |
| AMIKOM Muslim Students Jamboree, *Event Chairman* | December 2019 |

**Technical Skills**

**Programming Languages**: Python, Javascript, Ruby, Shell Scripting.
**Cloud Platforms**: GCP, AWS, Azure, IdCloudHost.
**Databases**: MySQL/MariaDB, PostgreSQL, ElasticSearch (ELK), Redis, MongoDB, HDFS.
**Fullstack**: Vue(Vite), Flask, SQLAlchemy, Jekyll.
**Libraries and Tools**: Pentaho, GDAL, Rasterio, QGIS, Shapely, Cdsapi, Geomesa, Geoserver.