

Yasin Güray HATİPOĞLU

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Military: Exempt

Education

2018-2022 – Earth System Science, Ph.D., METU (terminated)
2018/10 – Earth System Science, M.Sc. with thesis, METU
2017/08 – 13th Summer School on Toxic Compounds in the Environment, Masaryk University
2016/06 – Chemistry, B.Sc. (Honors), METU

Languages

- Turkish (Native), English (Advanced, C2), Russian (Beginner, A2), French (Beginner, A2)

Work Experience

2024/02 – Continuing **Founder, Scientist** – FIRE Araştırma Eğitim Ltd. Şti.
2026/06 – 2026-09 **Virtual Organizing Committee Member** – Europlanet Society - EPSC 2026
o Ensuring the records of the seminars are properly edited and uploaded
2026/04 – Continuing **Private Tutor** for Children and Adults
o Teaching of English for Speakers of Other Languages (TESOL)
o Chemistry, Physics, Biology, Mathematics, Geometry
2024/10 – 2024/12 **Trainer** – Impact Hub Ankara
Data Analytics Program for Impact Professionals
o Consultancy and training for spatial analysis and environmental impact
2024/09 – Continuing **Editor-in-Chief** – FIRE Araştırma Eğitim Ltd. Şti.
Science Ascend (ISSN: 3062-0090) Journal Editor-in-Chief (A total of 13 issues)
o Biannual Astrophysics Journal (Issue 11 and beyond)
- Interviews with people in the astrophysics field
- Literature review and evaluation of the previous 6 months
- Focus articles on a research/topic/tool
- Astrophysics outreach
- Lecture notes
o Compiling and reviewing the previous week's preprints (Issue 1-Issue 10)
- Astrophysics, Analytical and Environmental Chemistry, Remote Sensing, Data Analysis
2024/03 – 2024/08 **Non-key Modelling Expert** – NFB Mühendislik ve Müşavirlik A.Ş.
Technical Assistance on Preparation of River Basin Management Plans for Six Basins Project (6RBMP)
o AQUATOOL+ Gescal Water Quality Modelling
2023/05 – 2024/03 **Founder** – Solopreneurship
2023/11 – 2024/03 **Project Assistant** – Ministry of Env., Urbanization and Climate Change (TR)
Enhancing environmental performance in the expanded and extruded polystyrene foam industries in Türkiye (HBCD Project) (GEF ID:10082)
o Administrative Works
- Organizing documents, tasks in workshops, TR-EN translations
o Update of the National Implementation Plan for Stockholm Convention
- Planning the inventory of newly listed Persistent Organic Pollutants
- Updating the older inventories (PBDE, DecaBDE)
2023/07 – 2023/10 **Junior Non-key Expert Chemist** – DAI & Ministry of Agr. and Forestry (TR)
o Sample Case Studies on the Impacts of the Application of Environmental Quality Standards on Environment and Health (6RBMP)
- Inventorying priority pollutants and specific substances, data analysis

2022/02 – 2022/09 **R&D and Project Expert** – FarmLabs Agricultural Technologies and R&D Inc.
- Preparing Project Proposals, Creating Consortiums, and Writing Mid-term Reports

2021/09 – 2021/11 **Project Manager** – 2U1K Engineering and Consultancy Inc.
- Writing reports in line with the IFC, EBRD, World Bank and other standards

2021/05 – 2021/07 **Environmental and GIS Expert** – GEM Sustainability Services and Consultancy Inc.
- Object detection with the remote sensing data from optical-radar high-medium res. satellites
- Examination/evaluation of the house-settlement level survey results
- Assisting in the preparation of Resettlement Action Plan in line with IFC and EBRD standards

2020/02 – 2020/08 **Short-term Expert** – UNIDO & Ministry of Environment and Urbanization (TR)
o Creating the inventory of PBDE and HBCD in Türkiye:
- Desktop studies using the national data and relations from other studies
- Creating surveys, evaluating the results, and reporting them

2019/03 – 2020/10 **Project Assistant** – METU Geodetics and Geographic Information Systems.
- Satellite Remote Sensing

2018/01 – Continuing Freelance Translator – Kalite Akademik Tercüme and other firms
- TR-EN language pair translation, editing, and redaction services for academic articles

2016/10 – 2019/03 **Project Assistant** – METU Env. Eng. & Ministry of Env. and Urbanization (TR)
- Collecting, preprocessing, analysing, and reporting survey results from industries
- Organizing regional workshops

2015/09 – 2017/08 **Project Assistant** – METU Environmental Engineering
- Designing the experimental setup, making micro-mesocosm experiments
- Field visits to collect air and sediment samples in regular – bimonthly intervals

2014/07 – 2014/12 **Project Assistant** – METU Environmental Engineering and DOKAY
- Preparing passive samplers to regularly monitor urban ozone, nitrous oxide, BTEX, VOC
- Training newcomers

2009/07 – 2009/08 **Intern** – SMMM İbrahim Gökçe
- Internship in an accountant firm

Projects

Non-key Modelling Expert (6 months)	Technical Assistance on Preparation of River Basin Management Plans for Six Basins Project (6RBMP)
Project Assistant (5 months)	Enhancing environmental performance in the expanded and extruded polystyrene foam industries in Türkiye (HBCD Project)
Chemist (4 months)	Technical Assistance on Preparation of River Basin Management Plans for Six Basins Project (6RBMP)
Short-term Expert (7 months)	Update of the National Implementation Plan for Stockholm Convention for the Persistent Organic Pollutants Project
GIS Expert (1,5 years)	Constructing an Integrated Ecosystem Modelling-Focused Decision Support System for the Management of the Manyas Lake Basin (TÜBİTAK 1003 Project)
Project Assistant (2,5 years)	Sewage Sludge Management and Action Plan of Turkey (TAÇYEP)
Project Assistant (2 years)	Investigation of the Fate of Brominated Flame Retardants in Aquatic Sediments (TÜBİTAK 1001 Projesi)

Publications

Publications (Peer-reviewed)

Hatipoğlu, G., Kurt, Z. (2020). Modeling irrigation with nitrate contaminated groundwater. Pamukkale University Journal of Engineering Sciences, 26 (3), 468-480. <https://dergipark.org.tr/en/pub/pajes/issue/54792/748947>

White Papers-Reports

Hatipoğlu, G., Couto, N. (2022). 3 - Site Characteristics, Contaminants and Laboratory Investigation. Multi-phase Extraction (MPE) Report. Chapter. <https://www.impel.eu/contents/libraryfile/mpe-impel-final-report-2022-10-mpe-en.pdf>

Conference Presentations

Attree, N., Crameri, F., Broquet, A., Seignovert, B., Hatipoğlu, G., Solmaz, A., & Wieczorek, M. (2025). *Planetary Research: A new diamond open access journal for planetary science* (No. EPSC-DPS2025-39). Copernicus Meetings.

Kacholia, D., Verma, N., D'Amore, M., Angrisani, M., Frigeri, A., Schmidt, F., Carruba, V., Hatipoğlu, Y.G., ... & Ivanovski, S. (2025). *Artificial Intelligence in Planetary Science and Astronomy: Applications and Research Potential* (No. EPSC-DPS2025-1467). Copernicus Meetings.

Ivanovski, S. L., Verma, N., Hatipoğlu, Y. G., Angrisani, M., Solmaz, A., Smirnov, E., ... & D'Amore, M. (2025). *Euoplanet Machine Learning Working Group: a year of progress* (No. EPSC-DPS2025-1815). Copernicus Meetings.

Hatipoğlu, G. (2023, October). Mitigating noise-related object detection problems in JWST MIRI images by FFT-based methods. Oral presentation. BEYOND2023. TOBB Üniversitesi, Ankara, Türkiye.

Hatipoğlu, G. (2021, May). Checking Landsat 8 OLI's predictive power in the retrieval of chlorophyll-a and phycocyanin concentrations of a reservoir with high frequency field data. Oral presentation. Intercontinental Geoinformatics Days – 2021. Çevrimiçi.

Hatipoğlu, G. (2019, September). Decontamination Nitrate Containing Groundwater with Pump and Fertilize Application to Maize Farms, but where? Finite Element Method Utilization with HYDRUS 1D. Oral presentation. Beyond 2019: Computational Science and Engineering Conference. Ankara, Türkiye.

Hatipoğlu, Y. G., Kurt, Z. (2018). Application of Finite Element Method by HYDRUS 1D for assessing the effects of Irrigation by Contaminated Groundwater in Turkey. Oral presentation. Beyond: Workshop on Computational Science and Engineering. Ankara, Türkiye.

Poster Presentations

Demirtepe H., Hatipoğlu, G., İmamoğlu, İ. (2017, January). Abiotic degradation of decabromodiphenylether (BDE-209) via catalyzed hydrogen peroxide propagations. Poster presented at 9th International Conference on Remediation and Management of Contaminated Sediments. New Orleans, Louisiana.

Preprints

Hatipoğlu, G. (2024). Value Sliced and Derivative Images for Source Mask in JWST MIRI Photometry. arXiv:2401.15779

Hatipoğlu, G. (2023). JWST MIRI Imaging Data Post-Processing Preliminary Study with Fourier Transformation to uncover potentially celestial-origin signals. arXiv:2304.00728

Hatipoğlu, G. (2023). PCA-based Data Reduction and Signal Separation Techniques for James-Webb Space Telescope Data Processing. arXiv:2301.00415

Hatipoğlu, G. (2022). Utility of PCA and Other Data Transformation Techniques in Exoplanet Research. arXiv:2211.14683

Hatipoğlu, G. (2022). On the Use of Dimension Reduction or Signal Separation Methods for Nitrogen River Pollution Source Identification. arXiv:2204.13182

Tutorials

Hatipoğlu, G. Y. (2026). Retrieving MAST images and overlaying Gaia/Vizier sources on them. *Learn Astropy*. Retrieved in April 17, 2026 from: <https://learn.astropy.org/tutorials/catalog-overlay-on-fits.html>

External Blogposts

Hatipoğlu, G. Y. (2026). Renggli et al. (2026) improved christiansen feature – silicon dioxide concentration model, from their letter in planetary research journal. *Planetary Research Blog*. Retrieved September 11, 2026 from: <https://blog.planetary-research.org/2026/09/10/renggli-et-al-2026-improved-christiansen-feature-silicon-dioxide-concentration-model-from-their-letter-in-planetary-research-journal/>

Hatipoğlu, G., Sullivan-Wiley, K., & Ashander, J. (2021). The Integration of Ecological Forecasts Into Environmental Policy. *Ecological Forecasting Initiative Blogposts*. Retrieved September 12, 2026 from: <https://ecoforecast.org/the-integration-of-ecological-forecasts-into-environmental-policy/>

Hatipoğlu, G. Y. (2021). Guest post: how I gained an interdisciplinary research perspective as an undergrad in the lab and why it was important to me. *Undergrad In the Lab Website*. Retrieved September 11, 2026 from: <https://undergradinthelab.com/node/216>

Software

- Python machine learning, statistical analysis, data processing, remote sensing, astrophysics
- Microsoft Office Word, Excel, Libre Office, LaTeX, InkScape, Canva.com
- R 4.x machine learning, visualization
- Google Earth Pro, QGIS map making and spatial analysis
- **ffmpeg**, Adobe Premiere
- draw.io

Selected Certificates/Training Programs

Work / Management

2026 / 01 Girişimcilik Temelleri – BTK Akademi

2026 / 01 Müşteriyi Tanımak – BTK Akademi

2026 / 01 Pazar Araştırması ve Fiyatlandırma Stratejisi – BTK Akademi

2025 / 11 İSG Hizmetlerinin Yürüyümüne İlişkin İşveren veya İşveren Vekili Eğitimi - ÇASGEM

Personal Development / Communication

2023 / 02 Etkili İletişim Stratejileri – BTK Akademi

2023 / 02 Kişisel Stres Yönetimi – Bilgeleş – METU – ÇŞGB

2022 / 01 Preparing to Network in English - UWashingtonX

2022 / 01 Translation Certification Guidance TR TO EN & EN TO TR - OneForma

2021 / 07 Sagan Summer Workshop 2021 – (5 days) – Workshop – NASA ExSci

2021 / 04 Certified Peer Reviewer Course – Elsevier Researcher Academy

2020 / 11 Sanat Terapisi Eğitimi (10 saat) – Karabük Üniversitesi Uzaktan Eğitim Merkezi

2020 / 08 TESOL (120 saat) - Vancouver International College Career Campus

2017 / 08 13th Summer School on Toxic Compounds in the Environment 2017 – RECETOX

Natural Resource Management

2024 / 04 Using land-cover information to monitor progress on Sustainable Development Goal 15 - FAO

2021 / 10 Introduction to Lidar – NOAA

2021 / 08 Introduction to the 2030 Agenda: A New Agenda for a Sustainable World – UNITAR

2021 / 08 Monitoring Forest and Landscape Restoration – FAO

2021 / 08 Integrated Urban Flood Risk Management: Lessons from Japan – World Bank OLC

Information Technology

2026 / 01 Uzun Kısa Süreli Bellek – LSTM – BTK Akademi

2023 / 02 Python ile Programlama – 2 – Bilgeleş – METU - ÇŞGB

2023 / 02 Python ile Programlama – 1 – Bilgeleş – METU - ÇŞGB

2022 / 01 Data Science: Visualization - HarvardX

2022 / 01 Data Science: Wrangling - HarvardX

2021 / 08 Python Basics for Data Science – IBM

2021 / 08 Introduction to Cloud Development with HTML, CSS, and JavaScript – IBM

2021 / 08 Essential Technologies for Business – **3-course-program** of IBM

2021 / 07 Python – Certificate of Completion – Kaggle

2021 / 07 Introduction to Cloud Computing – IBM

2020 / 02 Fundamentals of Deep Learning for Multiple Data Types – NVIDIA DLI

2020 / 02 Fundamentals of Deep Learning for Computer Vision – NVIDIA DLI

Earth Observation / Remote Sensing

2021 / 08 Monitoring Coastal and Estuarine Water Quality: MODIS to VIIRS – NASA ARSET

2021 / 08 Sat. Obs. for Analyzing Natural Hazards on Small Island Nations – NASA ARSET

2021 / 08 Species Distribution Modeling with Remote Sensing – NASA ARSET

2021 / 03 Use of SIF & LIDAR to Assess Vegetation Change and Vulnerability – NASA ARSET

2021 / 03 How to prepare a case study – Demo – EUMETSAT

2021 / 02 Crop mapping using Copernicus Sentinel data – WEkEO