

# NIKOLAOS FRAGKOS

Data Science for Food & Health

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## Research Interests

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AI for food systems and agriculture • ML for food fraud & consumer behavior

## Education

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- 09/2023 – Present    **MSc in Data Science for Food and Health**  
*Wageningen University & Research (WUR), Wageningen, Netherlands*  
**Current Grade:** 8.45/10  
**Thesis:** Artificial Intelligence and citizen science to combat Food Fraud (9.5/10).  
**Coursework:** Programming in Python; Data Science Concepts; Statistics for DS; AI for Food & Health; DS for Food & Consumer Behavior; Food Fraud & Mitigation.
- 09/2017 – 09/2022    **Integrated MSc in Agricultural Economics & Rural Development**  
*Agricultural University of Athens (AUA), Athens, Greece*  
**Grade:** 8.56/10 (top 5%, 3rd/128).  
**Thesis:** Opinion Mining in evaluation sites, Greek Food & Beverage Industry (10/10).

## Research Experience

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- 08/2025 – Present    **Student Assistant — Data Engineering for AI Crop Modeling**  
*Artificial Intelligence Group, WUR, Wageningen, Netherlands*  
Merged & standardized heterogeneous datasets into unified, consistent sources for AI-based crop models.
- 11/2021 – 09/2023    **Research Assistant**  
*Informatics Lab, AUA, Athens, Greece*  
Collected/managed metadata on digital-competency resources; developed methodology & extraction guide; presented outcomes.

## Teaching Experience

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- 11/2024 – 03/2025    **Teaching Assistant — Food Fraud**  
*Wageningen University & Research, Netherlands*  
Designed resources; co-developed AI interview chatbots (prompt engineering, alignment).
- 01/2025 – 02/2025    **Teaching Assistant — Artificial Intelligence**  
*Wageningen University & Research, Netherlands*  
Assisted labs; designed/refined assignments; graded with feedback.
- 09/2024 – 11/2024    **Teaching Assistant — Programming in Python**  
*Wageningen University & Research, Netherlands*  
One-to-one lab support; code troubleshooting.

## Professional Experience

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- 03/2025 – 08/2025    **Culinary Data Analyst Intern**  
*Kraft Heinz, Nijmegen, Netherlands*  
Trend analyses for New Product Development; reproducible food trend model; supported roll-out/adoption of a new internal tool.

- 07/2021 – 09/2021    **Barley Operations Assistant Intern**  
*Athenian Brewery, Athens, Greece*  
Statistical analysis for barley yield; regional yield maps.
- 07/2020 – 09/2020    **Subsidies' Archive Assistant**  
*Chios Mastic Growers Association, Chios, Greece*  
Database management; invoice checks; producer support on subsidy status.

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## Publications

- Fragkos, N., Liapakis, A., Ntaliani, M., Ntalianis, F., & Costopoulou, C. (2024). *A Sentiment Analysis Approach for Exploring Customer Reviews of Online Food Delivery Services: A Greek Case*. *Digital*, 4(3), 698–709. doi:10.3390/digital4030035
- Fragkos, N., Liapakis, A., Costopoulou, C., & Ntaliani, M. (2022). *Sentiment Analysis in Online Food Delivery: A Greek Case Study*. In *Proc. HAICTA 2022*.

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## Honors & Awards

- 2023    **3rd Place — Data Factory XR Hackathon**, Wageningen University & Research (WUR)
- 2023    **MSc Scholarship — John S. Latsis Foundation**; 20 scholarships nationwide
- 2021    **Top 7 — InnovinAgri**, Agricultural University of Athens
- 2020    **Top 10 — TROPHY Challenge**, New Agriculture New Generation

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## Skills

**Programming:** Python, HTML, CSS, Visual Basic  
**Data/Software:** R, Stata, IBM SPSS, Tableau

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## Languages

Greek    **Native**

English    **C2** — TOEFL iBT, ECPE

French    **C1** — Sorbonne C1

Spanish    **A2**

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## Summer Schools

Precision Agriculture — Ghent (2024)  
Behavioral Economics — AUA (2021)

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## Volunteering

**Organizing Committee**, PANORAMA of Entrepreneurship & Career Development (2019–Present)  
Event coordination, on-site logistics, outreach.