

# George TSAGIANNIS

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I am a quick learner and self-starter, a recent graduate of Le Wagon's Full-Stack Web Development Bootcamp with a background in Applied Mathematics, Physics and Computational Social Sciences. I have experience with several programming languages such as Ruby, Python, JavaScript and R and a passion for solving complex problems. I am looking to leverage my skills and experience as a software engineer and make a positive impact in the industry and everyday people's lives.

## Skills

- English: full professional proficiency, French: full working proficiency, Greek: native
- Strong technical skills in Ruby, Ruby on Rails, Python, JavaScript, HTML, CSS, Bootstrap, SQL DBS, R, Git, Bash, GNU/Linux
- Excellent analytical and data-driven problem-solving abilities, with strong debugging and troubleshooting skills
- Resourceful and fast learner with a strong desire to continually learn and adapt to new technologies and methodologies

## Work Experience

### • Mathematics & Physics Tutor

- Courses: Advanced Mathematics and Statistics, Statistics and Probabilities, Applied Physics
- 25-member classes, 5-10 member classes, small groups, private lessons, in-person, remotely
- Adept at explaining complex mathematical and physics related concepts in a number of clear and accessible ways to a variety of student and academic audiences

Sep 2004 – Sep 2022

**freelancer,**  
**various private schools**

Greece, France, UK, Remote

### • Data GUI Development Specialist

- Development of GUI applications (web and cross-platform stand-alone executable) for computation and visualization of the ROC curve's confidence ellipses (Python, Tcl/Tk, R, Shiny)
- Establish and daily re-assess detailed program specifications through discussion and feedback by stakeholders of an international multi-disciplinary research collaboration
- Establish, follow and improve daily multi-channel feedback and optimization routines (unit-/user-acceptance-/functional- testing feedback, troubleshooting and debugging)

Mar 2021 - Jul 2022

**Centre for Manufacturing and  
Materials (Coventry University), Solid  
Earth Physics Institute  
(University of Athens),  
Economics-Society Dynamics  
(Paris Nanterre University)**  
Research Collaborator

### • Jr ML Engineer

- Refine and improve scalable and accurate forecasting systems (wind & solar power, load demand)
- Work on various ML models with large-scale datasets assuring Data Science workflow and processes
- Analysed live and historical data to provide insights and KPIs, working closely with product, engineering and business units
- Work closely with external stakeholders proposing different technical possibilities

May 2020 - Oct 2020

**4Cast**

Interim

Paris, France

### • Statistical Text Data Analyst

- Manipulate, analyse and interpret demographic and market datasets
- Data modelling, exploratory analysis and definition of model ingestion rules
- Work with NLP techniques (Topic Modelling, Text classification, Entity Recognition) applied to raw text datasets (contact with IDHES research team)

Sep 2018 - Mar 2019

**IFOP**

Intern

Paris, France

### • Risk Data Analyst - Scientific Programming

- Risk and uncertainty evaluation to provide input for business decisions related to freight lines
- Hyperparameter optimization, implementation & supervision of Monte Carlo simulations

Sep 2012 - Jan 2013

**IIT Demokritos**

Intern

Athens, Greece

## Education

### • Le Wagon Bootcamp – Full Stack Web Development (London)

- Object Oriented Programming, web development frameworks (Ruby on Rails, React), database management, collaborative coding, version control, UI frameworks, project deployment & maintenance
- Designed, implemented and shipped to production an AirBnB clone and a Rails prototype of a music social media project

Oct 2022 - Dec 2022

### • MRes (Master Recherche) – Computational Social Sciences

- Paris Nanterre University (Paris X)**
- Advanced Technology in the Humanities and Social Sciences, Machine Learning, Natural Language Processing
- Thesis : "Computational (Topic Modeling, Text Analytics) & traditional source analysis"

Sep 2017 - Jul 2019

### • BA (Licence) - Science-Technology-Society

**Paris Sorbonne University (Paris IV)**

Sep 2011 – Jul 2014

### • Integrated MEng (5-year, *Diploma*) - Applied Mathematics and Physics

**National Technical University of Athens (NTUA)**

- Thesis: "Evaluation and modelling of Greek industry and natural resources during 19th century"

Sep 2002 – Jul 2009