DIMITRIOS LYGKONIS

Software Engineer

🎂 **8th Feb 1996**   @ `dimitris.ligonis@gmail.com`   📍 **London, UK**

EXPERIENCE

Software Engineer
FINBOURNE Technology

📅 October 2022 – October 2023   📍 London, UK

Part of the **Analytics** team.

- Contributed to the *development*, *monitoring* and *maintenance* of a distributed computing grid.
  - Built logging infrastructure handling 1 million trace logs per day, with 99.9% uptime.
    Stack: **Kafka/Elastic Search**
  - Designed and implemented a scripted translation service for financial entities handling 50 thousand requests a day that helped onboard new clients.
    Stack: **.NET/PostgreSql/JavaScript/XSLT**
  - Developed, deployed and maintained distributed **.NET** microservice applications integrating market data providers as well as serving internal functionality using **RabbitMQ** for messaging, **Redis** for distributed rate limiting.
  - Created pipelines covering all **CI/CD** stages.
    Stack: **Kubernetes**/**Concourse**/**Helm**

SKILLS

- **Software Development:**
  - .NET, Python, Bash, PostgreSql, JavaScript, XSLT

- **DevOps:**
  - Kubernetes, Helm, Concourse, Prometheus, Loki

- **Data pipelines/storage :**
  - Kafka, RabbitMQ, Redis, Elastic Search, S3

INTERESTS

I enjoy playing with computer systems outside work. During my spare time, I am maintaining a small Kubernetes cluster at home, using ArgoCD/ArgoWorkflows for CI/CD. I enjoy doing projects that involve modelling advanced concepts in distributed computing with toy model services and APIs for personal use and fun.

I also love art. In my free time I enjoy playing music (string instruments), watching films and going to the theatre.

LANGUAGES

- **English**   (fluent)
- **Greek**   (native)

EDUCATION

PhD, Probability and Mathematical Physics
University of Warwick

📅 Oct 2019 – September 2022

Conducted original research at the interface of Probability Theory, Statistical Mechanics and Quantum Field Theory.

Published work:

- A multivariate extension of the Erdös-Taylor theorem. `arxiv:2202.08145`, (under revision at *Probability Theory and Related Fields*).
- Moments of the $2d$ directed polymer and a generalisation of the Erdös - Taylor theorem, *Commun. Math. Phys.* (2023). (journal link). (**10 citations**)
- Edwards-Wilkinson fluctuations for the directed polymer in the full L^2-regime for dimensions $d \geq 3$, *Ann. Inst. H. Poincaré Probab. Statist.* (2022), (journal link). (**25 citations**)

MSc, Mathematics and Statistics
University of Warwick

📅 Oct 2018 – Sept 2019

- Part of a 4-year funded PhD studentship, MASDOC DTC, University of Warwick, 2018.
- Awarded with distinction.

Focus areas:

PDE, Bayesian Statistics, Stochastic Processes, Statistical Physics.

BSc, Pure & Applied Mathematics
University of Athens

📅 Oct 2014 – August 2018

- GPA: 8.9/10
- Admitted **1st** among all candidates with score **19.532/20** in the national examinations.