

# JUSTIN ARISTA KASIN

in : [justinarista](#) |  : [zegheim](#)

## EDUCATION AND AWARDS

### BSc Mathematics and Statistics (Hons)

University of Edinburgh

Sep 2015 - May 2020

Degree classification: 1st Class

- **Dissertation:** Developed spatial Poisson hurdle models in R to forecast monthly counts of wildfire occurrences (91%).
- Notable taught courses include [Credit Scoring](#), [Machine Learning Practical](#), [Statistical Consultancy](#), and [Time Series](#).
- Awarded with *The Institute and Faculty of Actuaries Prize* in 2018 for best results in [Probability](#) and [Statistics](#).

## WORK EXPERIENCE

### System Administrator

Information Services Group, University of Edinburgh

Feb 2019 - Jul 2020

- Maintained a **5-star** *UniDesk* rating while on support by promptly responding to users' queries and regularly updating them.
- Reduced time spent on examining logfiles by **95%** by developing a Python tool to query and retrieve logs from multiple servers.

### Data Science Consultant

Heteronomics

Jan 2020 - Jun 2020

- Generalised existing inflation models to work with all EU member countries; achieved comparable performance to human forecasters.
- Built a data science pipeline in Python to automatically generate monthly forecasts of retail sales growth in UK and Sweden, with a mean error of 0.5%.

### Software Engineering Intern (Athena Core)

JPMorgan Chase & Co.

Jun 2019 - Aug 2019

- Assisted the AI Research team by conducting a literature review on various state-of-the-art synthetic data generation methods.
- Helped to **double** the number of Python 3 compatible modules by developing a new tracking dashboard for developers.
- Removed migration pain points through quality of life improvements such as storing pre-computed data in a cache to reduce load times by **50%**, and allowing developers to load relevant modules to their editors directly from the dashboard.

### Software Engineering Intern

Metaswitch Networks

Jun 2018 - Aug 2018

- Increased time efficiency by **75%** by writing automation tools to upgrade and deploy test rigs in Docker containers.
- Improved code standardization by developing a Rust tool to document and publish internal microservices in a centralised space.
- Eliminated all risks of test servers breaking due to expired certificates by collaborating with rig owners to write a bash script that automatically renews HTTPS certificates on their test systems.

## LEADERSHIP AND ADDITIONAL EXPERIENCE

### Head of Marketing and Sector Head

Prosper Social Finance

Apr 2018 - Apr 2019

- Increased number of sessions by **50%** and reduced bounce rate by **16%** by revamping our company website.
- Developed our fund's own [portfolio tracker](#) on our company website in the spirit of transparency – one of our core values.
- Managed 14 analysts to research companies based on our core values; convinced the investment panel to invest £4,000.

### MathPALs Student Leader

Edinburgh University's Student Association

Sep 2018 - Nov 2018

- Maintained **90%** helpfulness rating on average while mentoring 10 students enrolled in [Introduction to Linear Algebra](#).
- Developed group management skills by facilitating discussions and encouraging quieter students to speak up.

## SKILLS, LANGUAGES, AND INTERESTS

**Skills** Python (numpy, pandas, scikit-learn), R (tidyverse), git, bash, ReactJS (Gatsby), MS Excel.

**Languages** English (Native), Indonesian (Native), Hokkien (Native), Mandarin Chinese (Basic).

**Interests** **Casual mathematics:** *Alex Bellos's Monday puzzle*, Nonogram, and Sudoku.  
**Hiking:** Summited *Mt. Stong* and *Mt. Ayam* in 2014 with *Tahan Mountain Trekking Club*.  
**Running:** Raised £500 for *Cancer Research UK* by participating in *Scottish Half Marathon 2018*.