

# PIOTR MIGDAŁ, PHD

deep learning specialist, technical visionary & leader

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## INTRO

I am open to ambitious challenges combining AI with the end-user experience.

I would happily consider industries such as medtech, biotech, and user-centric AI. Ideal roles include data science tech lead, head of AI, technical product manager, and CTO.

## EXPERIENCE

### co-founder & CTO

#### Quantum Flytrap

2020 – 2022    Singapore & Warsaw, Poland

- A startup delivering quantum computing to businesses through an accessible IDE.
- Raised a VC-backed pre-seed round.
- Led the development of a state-of-the-art numerical engine, which performs quantum computation in real-time in the browser.
- Delivered a web-based quantum computing interface to Pasqal, a leading quantum hardware manufacturer – a paying customer.
- Created Virtual Lab, an interactive simulation of entangled photons, used at Stanford and Oxford universities.
- Nominated to the 27th Webby Awards in the Science category, alongside NASA and OpenAI websites.
- Key tech: TypeScript, Vue, Rust, WASM, quantum computing.

### AI researcher

#### ECC Games

2020 – 2021    Warsaw, Poland

- Designed and led implementation of deep learning models for simulating racing car physics & unsupervised image segmentation.
- Authored a publication "Level generation and style enhancement – deep learning for game development overview".
- Key tech: Python, PyTorch.

### machine and deep learning consulting

#### independent

2015 – 2019    US, Europe

- Trainings and consulting for: deepsense.ai, Intel, Nielsen, Samsung Research, and BCG.
- Key tech: Python, Jupyter Notebook, Scikit Learn, PyTorch, Keras.

### data science and data viz freelancing

#### independent

2014 – 2015    remote & Warsaw, Poland

- Selected clients: Data4Cure, Startup Compass, Laboratorium EE.
- Key tech: Python, Pandas, NumPy, SciPy, JavaScript, D3.js.

## LIFE PHILOSOPHY

*"You live as long as you learn."*

## BEYOND WORK



#### livelossplot

Developed a popular Python library for visualizing deep learning model training, with over 1.5M installations.



#### Data Science PL

Created the largest data science community in Poland – over 20k members.



#### RSI & IPhO

Alumnus of the MIT Research Science Institute, an International Physics Olympiad bronze medalist.



#### Popularity

Over 15 of my projects and writings have been featured on the Hacker News front page.



#### Broad interests

19 research publications in physics, mathematical psychology, educational games, and data visualization.

## LANGUAGES

Polish

English

## EDUCATION

### PhD in quantum optics theory

#### ICFO – The Institute of Photonic Sciences

2011 – 2014    Castelldefels, Spain

- Maciej Lewenstein's group.
- Reviewed by Seth Lloyd (MIT).

### MSc in physics

#### University of Warsaw

2005 – 2011    Warsaw, Poland

### BSc in mathematics

#### University of Warsaw

2005 – 2009    Warsaw, Poland