

# PIOTR MIGDAŁ, PHD

deep learning specialist, technical visionary & leader

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## EXPERIENCE

Head of AI

**Dali Games**

2023 – ongoing   Warsaw, Poland

- Creating mobile games with AI, end-to-end.

co-founder & CTO

**Quantum Flytrap**

2020 – 2022   Singapore & Warsaw, Poland

- A startup making quantum easy for business by developing a quantum computing 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.
- 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