Olga Moskvyak   Phone: 0402 533 109

Computer Science PhD Student   Email: olgamoskvyak@gmail.com

Qualifications Summary

2018 – Current	PhD Candidate Queensland University of Technology
2014 - 2016	Master of Information Systems with Distinction, Central Queensland University, Australia
2004 - 2009	Bachelor in Mathematics, Lomonosov Moscow State University, Russia

Career Summary

2018 – 2019	Tutor (Casual) Queensland University of Technology, Brisbane, Australia
2016 – 2017	Research Assistant (Part-time) Central Queensland University, Brisbane, Australia
2009 - 2014	Consultant SAP ERP (logistics modules) (Full Time) Several consulting companies based in Moscow, Russia

Key Skills

- Research skills:

    - designing and building AI models for computer vision tasks;

    - knowledge of the latest research in deep learning and computer vision;

    - writing research papers and technical reports.

- Technical skills:

    - proficiency in Python including Pytorch, Keras, OpenCV, SciPy, Numpy, Pandas;

    - deployment of AI models and web applications (MS Azure, Docker).

- Soft skills:

    - communication with non-technical stakeholders;

    - presentation skills.

Career Achievements

As a PhD candidate:

- work on closing the gap between computer vision research settings and real-world scenarious.

- investigate how to apply machine learning to small real-life data including marine wildlife.

- latest project is automatic re-identificaiton of manta rays and whales. Demo is deployed at https://manta-app.azurewebsites.net/

As a tutor at QUT,

- I presented lectures and tutorials on building AI models and provided instructions to facilitate students' projects in courses:

  - IFN680 (Advanced Topics in Artificial Intelligence),
  - CAB320 (Artificial Intelligence),
  - EGH455 (Advanced Systems Design).

As a research assistant:

- collaborated with a research team on a pilot project of a smart diet advisory system.

- investigated the multi-objective optimisation algorithm and the genetic algorithm in Java for the problem of generating a nutritionally balanced diet.

- key achievement is a prototype of a smart dietary system that generates daily meals schedules based on dietary requirements.

As an SAP ERP consultant,

- analysed and designed business processes in the gas mining industry,

- customised SAP system to tailor for business requirements, prepared project documentation, developed user manuals and trained end-users.

- key achievement is creating a customizable tool to generate a report of gas consumption over the country that satisfies strict government regulations.

Publications

- Moskvyak, O., Maire, F., Dayoub, F., & Baktash, M. (2020). [Learning Landmark Guided Embeddings for Animal Re-identification](#). *2020 IEEE Winter Applications of Computer Vision Workshops (WACVW)*, 12-19.

- Moskvyak, O., Maire, F., Armstrong, A.O., Dayoub, F., & Baktash, M. (2019). [Robust Re-identification of Manta Rays from Natural Markings by Learning Pose Invariant Embeddings](#). *ArXiv, abs/1902.10847. In Review*

- Moskvyak, O., & Maire, F. (2017). [Learning Geometric Equivalence between Patterns Using Embedding Neural Networks](#). *2017 International Conference on Digital Image Computing: Techniques and Applications (DICTA)*, 1-8.

Awards and Prizes

- Queensland University of Technology, Australian Government Research Training Program (RTP) Stipend and QUT HDR Tuition Fee Sponsorship, awarded on 08/12/2018 with commencement in 2018

- CQUniversity, Vice-Chancellor's Scholarship, awarded on 17/04/2014 to study July 2014 – July 2016

Personal Interests

At my free time, I enjoy running along Brisbane river banks, swimming laps in the pool and reading biographies of interesting people.