

# JEVGENIJ GAMPER

[Personal page](#)

[GitHub](#)

[jevgenij.gamper5@gmail.com](mailto:jevgenij.gamper5@gmail.com)

[LinkedIn](#)

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## SUMMARY

- [Interdisciplinary](#) (click on the link) scientist with industry experience ranging from developing customer relationships and series-A fundraising to building science and engineering teams right from the seed round.
- Deep understanding of computer vision models and machine learning algorithms in applied as well as research domains.
- Competed at 3 European Swimming Championships in 2009, 2011 and 2012 at youth, junior and senior levels for Lithuanian national team.

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## TECHNICAL SKILLS

- **Organisational:** Mentorship; OKR setting, tracking and delivery; recruitment, on-boarding & team building
- **Computational:** Python; Shell; Docker; Dask; xarray; DVC; Git; GitHub Actions; PyTorch; PyMC3; AWS (EC2, S3, ECR); GCP

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## EXPERIENCE

### Cervest Ltd.

London, UK

Senior Machine Learning Scientist

Sept 2019 to present

- Built high resolution temperature projections from 16 CMIP5 climate models based on [MET Office research](#) using dask and xarray.
- Recruited machine learning (3), remote sensing (1), climate scientists (2) and data engineers (2).
- Led research residency second cohort recruitment and organisation. Mentored two residents.
- Liaised with Google Startup Accelerator on behalf of science & engineering teams - see Google's [press release](#).
- Contributed to Series A science strategy deck, due-diligence process.
- [Received](#) training from Google on Finding, Hiring & Understanding and Building Effective Teams.

### Cervest Ltd.

London, UK

Machine Learning Scientist

Apr to Sept 2019

- Co-designed and co-implemented research team Agile-based processes & engineering practices (Github projects; pull-request & reviews practices; documentation; infrastructure; Jupiter-hub).
- Built deep learning based computer vision models for hyper-spectral [Sentinel-2](#) and radar [Sentinel-1](#) satellites.
- Deployed machine learning models on AWS using Docker, [DVC](#).
- Contributed to branding and investment story of the company by [closely working](#) with Method branding agency.
- Established a research residency program. Mentored two residents, both had their papers accepted to NeurIPS 19 workshops.
- [Established](#) a reading group for the science & engineering teams - see it's [GitHub](#) page.

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## EDUCATION

### PhD Candidate, Machine Learning

Coventry, UK

Warwick University

2017-2021

- [Philips](#) funded research on colon biopsy screening using machine learning.
- Developed a semi-automatic method to construct largest nuclei instance segmentation and classification dataset [PanNuke](#).
- Served on an organisational committee for [European Congress for Digital Pathology 2019](#).
- Co-organised and [presented](#) at a ECDP19 workshop on machine learning for clinical domain experts.
- Worked on deep multi-task learning, anomaly detection, generative models, [implemented](#) multiple previously published models.
- Presented at NeurIPS and ICLR.

### MSc, Applied Mathematics

Coventry, UK

Warwick University

2016-2017

- Worked with [Theo Damoulas](#) and [David Armstrong](#) on fast methods for Exo-planet validation applied to [Kepler satellite](#) data, which **lead to a discovery of 50 new exoplanets!** Subsequently [published](#) in Monthly Notices of the Royal Astronomical Society journal with a [press release](#) featured in 20 media sources. To be featured in [Talk Python](#) podcast.

### BSc Honours, Mathematics & Finance

North Carolina, USA

Catawba College

2012-2016

- Team Captain, NCAA-II Swimming Team. Led the team to the highest academic standing across the nation, with the total GPA of 3.68.
- Founder, Student Managed Investment Fund. Developed a formal proposal outlining the fund's quantitative strategy. Raised \$40,000 of initial capital from University trustees, Faculty and Alumni. Recruited and managed a team of 20 students.

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## TEACHING AND MENTORING EXPERIENCE

Mentor-ship/teaching is about leading with ears instead of mouth. I try to elicit from people what inspires and challenges them, and show the flexibility to frame together what needs to be done in that context to achieve their ambitions.

- 2020 - [Robert Huppertz](#), a resident at Cervest Ltd. & MSc student at Imperial College London. Robert's project entails building deep learning models for wildfire monitoring.
- 2020 - [Shahine Bouabid](#), currently a resident at Cervest Ltd. Shahine's work on deep generative modeling for remote sensing has been accepted to Climate Informatics 2020.

- 2019 - Co-supervised [Brandon Chan's](#) MSc thesis at Warwick University. His work on anomaly detection contributed to a workshop [paper](#) at NeurIPS 2019.
- 2019 - [Agnes Schim van der Loeff](#), a resident at Cervest Ltd. Agnes' work on evaluation of AI ethics for systemic issues was [accepted](#) to NeurIPS 2019 workshop as an oral presentation.
- 2019 - [Mike Zotov](#), a resident at Cervest Ltd. Mike's work on using generative adversarial network for optical remote sensing denoising was [accepted](#) to NeurIPS 2019 workshop as a poster presentation.
- 2017-2019 - Teaching Assistant for [cs342](#) Machine Learning course at Warwick University. Responsibilities included: run 3 lectures on deep learning; through out the course run theoretical and computational workshops; marking.
- 2018 - Teaching Assistant for [cs904](#) Computational Biology course at Warwick University. Responsibilities included: run 2 lectures on computer vision in Medical Imaging; through out the course developed material for and run computational workshops; marking.
- 2018 - Teaching Assistant for [ibi121](#) Quantitative Analysis for Management course at Warwick University. Responsibilities included: run workshops; exams marking.

## PUBLICATIONS

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Armstrong, D., **Gamper, J.**, Damoulas, T. Exoplanet Validation with Machine Learning: 50 new validated Kepler planets. *Monthly Notices of the Royal Astronomical Society*, 2020.

**Gamper, J.**, Koohbanani, NA., Benet, K., Khuram, A., Rajpoot, N. PanNuke: An Open Pan-Cancer Histology Dataset for Nuclei Instance Segmentation and Classification. *In European Congress on Digital Pathology, pages 11–19. Springer, 2019.*

Graham, S., Chen, H., **Gamper, J.**, Dou, Q., Heng, P., Snead, D., Tsang, Y., W., Rajpoot, N. MILD-Net: Minimal information loss dilated network for gland instance segmentation in colon histology images. *Medical image analysis* 52, 199-211. (2019)

**Gamper, J.**, Chan, B., Tsang, Y. W., Snead, D., Rajpoot, N. Meta-SVDD: Probabilistic Meta-Learning for One-Class Classification in Cancer Histology Images. *Accepted at NeurIPS 2019 Medical Imaging.*

Schim van der Loeff, A., Bassi, I., Kapila, S., **Gamper, J.** AI Ethics for Systemic Issues: a Structural Approach. *Accepted at NeurIPS 2019 AI for Social Good.*

Zotov, M., **Gamper, J.** Conditional Denoising of Remote Sensing Imagery Using Cycle-Consistent Deep Generative Models. *Accepted at NeurIPS 2019 AI for Social Good.*

Koohbanani, NA., Qaisar, T., Shaban, M., **Gamper, J.**, Rajpoot, N. Significance of Hyperparameter Optimization for Metastasis Detection in Breast Histology Images. *Computational Pathology and Ophthalmic Medical Image Analysis*, 139-147. (2018)