Pavel Ianko

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Oct 2021 – Current Padua, Italy

Education

MSc, University of Padua

Machine Learning for Intelligent Systems.

<u>Current courses</u>: Machine and Deep Learning, Statistical Learning,
Cognition and Computation, Human Data Analytics

BSc, Novosibirsk State University

Physical Informatics. <u>GPA 4.92 / 5.0 (**Top 7%**)</u>
<u>Key courses</u>: Computational physics, Machine learning, Data & signal processing, Discrete mathematics, Computer networks, Object-oriented programming, Software engineering, Mathematical analysis, Linear algebra

Sep 2017 – Current Novosibirsk, Russia

Work Experience

Research Intern, National Tsing Hua University College of engineering, laboratory of Flexible Printronics

Programmed a software application for image processing and assessing pattern irregularities for flexible printronics

Jun – Aug, 2019 Hsinchu, Taiwan

Laboratory of Effective Usage of Reactor Facilities Kutateladze Institute of Thermophysics

Experimentally assessed mixing efficiency in microchannels Processed data, presented results at conferences **Sep 2017 – Current** Novosibirsk, Russia

Hackathon Experience

Skoltech University hackathon

Together with profi.ru web portal. Built Machine Learning model to recognize frauds on web sites. Special prize winner <u>link</u>

International Winter School, Machine Learning in Robotics *Reinforcement learning course* <u>link</u>

January 15-17, 2021 Moscow, Russia

al Winter School, Machine Learning in Robotics December 7-10, 2020

nforcement learning course <u>link</u> Kazan, Russia

Deep Learning Workshop

Key topics practiced: YOLO, MMDetection frameworks, instance segmentation, transfer learning <u>link</u>

April – May, 2020 Novosibirsk, Russia

Programming Skills

C, C++, OS UNIX – accomplished university courses

Matlab – developed a GUI application for summer internship research

R – university course on statistical learning

Python – accomplished a software for Bachelor's degree project

Patents

1. Markovich D.M., **Ianko P.E.**, Skrypkin S.G., Tsoy M.A., Kravtsova A.Y. Software for the automation of flowrate control for cavitation stand (link)

Diplomas & Awards

- 1. 57th International Scientific Student Conference. April 14-19, 2019. 1st place (link)
- 2. **56th International Scientific Student Conference.** April 22-27, 2018. 3rd place (<u>link</u>)
- 3. 4th Russian School «Panoramic Methods for the Flow Diagnostics». June 19-22, 2018 (link)
- 4. 53rd International Scientific Student Conference. April 11-17, 2015. 1st place (link)
- 5. **Silver medal** at the 28th International Young Physicists' Tournament *Nakhon Ratchasima, Thailand. June 27 July 4, 2015* (link)
- 6. **Silver medal** at the 27th International Young Physicists' Tournament *Shrewsbury, England. July 3* 10, 2014 (link)

Language Skills

English CEFR level C1 (IELTS 8.0 overall band) (link)

Leadership & Scholarships

- 1. Excellence scholarship by University of Padua (16000 EUR for two years) (August 2021) (link)
- 2. Global Engineer Leadership Scholarship, National Tsing Hua University (15000 NTD) (July 2019) (link)
- 3. DAAD Scholarship for MSc students (Achieved, voluntarily declined) (July 2021) (link)

Journal Publications

- 1. Aleksandra Yu. Kravtsova, **Pavel E. Ianko**, Margarita V. Kashkarova, Arthur V. Bilsky, Igor V. Naumov. Investigation of the mixing in the T-micromixers at the different inlet flowrate relations // *Interfacial Phenomena and Heat Transfer* (link)
- 2. Kravtsova A. Yu., **Ianko P. E.**, Kashkarova M. V., Bilsky A. V. Estimation of the flows mixing efficiency inside T-micromixer with an external perturbation for low Reynolds numbers // *Journal of Physics: Conference Series* (link)
- 3. Ting-Jeng Liu, Shao-Min Hsu, Meng-JhuWu, **Pavel lanko**, Cheng-Yao Lo. Efficient and improved qualification method for patterns with irregular edges in printed electronics // Journal of Micromechanics and Microengineering (link)
- 4. Kravtsova A. Yu., **Ianko P.E.**, Kashkarova M. V., Bilsky A. V. Investigation of the perturbation flow in a T-microchannel using the LIF technique // *Journal of Visualization* (<u>link</u>)
- 5. Kravtsova A.Yu., **Ianko P.E.**, Meashalkin Yu.E., Bilsky A.V. Influence of External Periodic Perturbation on the Flow in T-Microchannel // *AIP Conference Proceedings 2027, 040084 (2018)* (link)

Conference Papers

- 1. **P.E. lanko**, A.Yu. Kravtsova. Experimental Investigation of the fluid flow structure in T-type micromixers for varied inlet flowrates ratio. // Int. Conf. on the Methods of Aerophys. Research (Novosibirsk, Russia, November 1-7, 2020): Abstracts. Pt. I. Novosibirsk: Parallel, 2020. p. 84 (link)
- 2. Kravtsova A.Yu., Kashkarova M.V., **lanko P.E.**, Bilsky A.V., Kravtsov Yu.V. Influence of the inlet flowrates ratio on the fluid mixing inside T-type micromixer for low Reynolds numbers // Proceedings, 36th Siberian Thermophysics Seminar, Russia, Novosibirsk, 5-7 October, 2020, p. 215 (link)
- 3. Kravtsova A.Yu., Kashkarova M.V., **Ianko P.E.**, Bilsky A.V., Kravtsov Yu.V. Special features of the fluid flow inside a T-type element for low Reynolds numbers and varied flowrate ratios // *Proceedings of the V All-Russian Scientific conference and School for Young Scientists. Novosibirsk, Russia, September 13-20, 2020, p.180 (link)*
- 4. **P.E. lanko**, J. Liu. Algorithm for printed microcircuitry validation in printed electronics // *Proceedings* of the 58th International Scientific Student Conference, Novosibirsk, 10-13 April, 2020, Section of Information technology, p. 136 (link)
- 5. Kravtsova Aleksandra, **Ianko Pavel**, Kashkarova Margarita, Bilsky Artur. Investigation of the Mixing Efficiency and the Diffusion in the T micromixers at the Different Relation of the Inlet Flowrates // Proceedings, *International Conference on Engineering, Science and Industrial Applications* (ICESI 2019), Japan, Tokyo, 22-24 August, 2019, p. 34 (link)
- 6. Kravtsova A.Yu., **Ianko P.E.**, Kashkarova M.V., Bilsky A.V. Influence of the periodical external perturbation on the fluid flow in a micron-sized channel // Proceedings, 35th Siberian Thermophysics Seminar, Russia, Novosibirsk, 27-29 August, 2019, p. 268 (link)
- 7. **lanko P.E.** Experimental Investigation of the fluid flow inside a T-mixer for different ratios of the inlet Reynolds numbers // Proceedings of the 57th International Scientific Student Conference, Novosibirsk, 14-19 April, 2019, Section of Continuous Media Physics, p. 28 (link)
- 8. **lanko P.E.**, Meshalkin Yu.E. Detalization of the perturbed microflow flow structure inside a T-microchannel // Proceedings, 25th All-Russian Scientific Conference for Student Physicists, Russia, Crimea, Sevastopol, 19-26 April, 2019, pp. 502-503 (link)
- 9. Kravtsova A.Yu., **Ianko P.E.**, Meshalkin Yu.E., Bilsky A.V. Influence of External Periodic Perturbation on the Flow in T-Microchannel // Abstracts, part II, 19th International Conference on Methods of Aerophysical Research (ICMAR), Russia, Novosibirsk, 13-19 August, 2018, p. 165 (link)
- 10. **lanko P.E.** Influence of the outer actuation on the flow inside a T-type jet microchannel // Proceedings of the 56th International Scientific Student Conference, Novosibirsk, 22-27 April, 2018, Section of Continuous Media Physics, p. 61 (link)