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Menlo Park, CA

Oleksii Sidorov

WORKING EXPERIENCE

Aug 2019 – Aug 2020
1 year

AI Resident (Research Engineer) — *Menlo Park, CA, USA*
Facebook AI Research

Building ETL pipeline for data collection with SQL and Python. Analyzing, visualizing, and presenting the results at the top AI conferences and published papers. Improving metrics for advanced vision and language ML algorithms. Running public Data Science challenge and analyzing the results. ***Skills: Python, SQL, Pandas, PyTorch, Matplotlib, Plotly, Tableau***

Jan – Mar 2019
3 mo

Research Intern — *Oxford, United Kingdom*
University of Oxford

Designing and conducting a User Experiment with eye-tracker. Analyzing data to find trends and insights about user behavior. Helping other team members to improve core metrics. Working cross-functionally between different teams and setting up future collaboration between two Universities. ***Skills: MATLAB, R, Python, Data Mining, UX, Experimentation, Data Science, Stats***

Aug 2018 – Jul 2019
1 year

Research Assistant, Teaching Assistant — *Gjøvik, Norway*
Norwegian University of Science and Technology (NTNU)

Identifying problems and developing novel ML solutions. Collaborating between different research teams. Analyzing and reporting results at the top AI conferences. Assisting students in their projects in Python and giving lectures. ***Skills: Python, R, PyTorch, Visualization, Reporting***

Jun – Aug 2018
3 mo

Research Intern — *Leuven, Belgium*
KU Leuven

Analyzing user behavior, attention, and memory for visual data. Using basic statistical and core Data Science methods to gain insights from data. Individually initiating collaboration with Technicolor Inc. and CV lab at KU Leuven. ***Skills: MATLAB, Stats, Data Science, Segmentation, Image Processing, Data Mining, XFN-communication***

EDUCATION

2017 – 2019

MS in Applied Computer Science

Erasmus+ Joint Master Degree:
1st position in a group ranking, the highest score in each subject

Norwegian University of Science and Technology — *Gjøvik, Norway*

Introduction to Artificial Intelligence, Video Processing, Specialization in Color Imaging, Medical Imaging

University of Lyon — *Saint-Étienne, France*

Data Analysis, Applied Color Science, Digital Image Fundamentals, Industrial Study Cases, Introduction to MatLab, Introduction to scientific programming, Applied Optics and Photonics.

University of Granada — *Granada, Spain*

Data Science, Computer Vision, Human Perception, Spectral Science, Digital Innovation and Entrepreneurship, Advanced Applied Colorimetry.

2013 – 2017 **BS in Physics**

Taras Shevchenko National University of Kyiv *Kyiv, Ukraine*

Basic mathematics: Mathematical analysis, Linear algebra, Theory of probability and statistics, Analytical geometry, Differential equations, Theory of groups, Numerical methods, Vector and tensor analysis, etc.
Basic physics: Mechanics, Optics, Electrodynamics, Quantum mechanics, Radioelectronics, Molecular physics, etc.
Optics & Photonics: Quantum Optics, Nonlinear Optics, Optics of anisotropic media, Quantum electronics, Technique of the optical spectroscopy, Photonics of organic media, Plasmonics, Raman spectroscopy, etc.

CERTIFICATES

July 2018 **Data Science Summer School** "From Deep Learning to Data Analytics" *Udine, Italy*
Best Paper Award

July 2019 **EEML Summer School by DeepMind (Google)** *Bucharest, Romania*
Award for Data Analysis and Visualization Kaggle competition

AWARDS & HONORS

Mar 2020 Acceptation to competitive Data Science Intensive at Stanford University.

July 2019 2nd place in Kaggle challenge in Data Analysis organized by DeepMind at EEML 2019.

July 2018 Best Paper Award at AI-DLDA18 summer school.

2017 – 2019 Two-year Erasmus+ scholarship funded by European Union.

2016 – 2019 Scholarships/grants by University of Groningen, Vrije Universiteit Brussel, Friedrich Schiller University Jena, Charles University, AI-DLDA summer school, EEML summer school, Norwegian University of Science and Technology.

May 2016 Grant of the Opportunity Funds program funded by the USA Government.

2014, 2015 Increased scholarship by Ukrainian Government for excellent academic performance.

2012 – 2013 Scholarship for Research Paper Defense Competition of Minor Academy of Sciences of Ukraine.

2010 – 2013 (annually) Ukrainian National Olympiad in Physics, the Diplomas of the Winner (national and regional stages).

PUBLICATIONS

Clickable!

TextCaps: a Dataset for Image Captioning with Reading Comprehension
Oleksii Sidorov, Ronghang Hu (UC Berkeley), Marcus Rohrbach (FAIR), Amanpreet Singh (FAIR)
ECCV 2020 (submitted), presented at CVPR 2020 Workshops, ACL 2020 Workshops

Are all the frames equally important?
Oleksii Sidorov, Marius Pedersen, Nam Wook Kim (Harvard), Sumit Shekhar (Adobe Research)
CHI 2020, Late Breaking Works

Generative Smoke Removal
Oleksii Sidorov, Congcong Wang (NTNU), Faouzi Alaya Cheikh (NTNU)
NeurIPS 2019 Workshops, Proceedings of Machine Learning Research (PMLR) Journal

Craquelure As a Graph: Application of Image Processing and Graph Neural Networks to the Description of Fracture Patterns
Oleksii Sidorov, Jon Yngve Hardeberg (NTNU)
ICCV 2019 Workshops

Deep Hyperspectral Prior: Denoising, Inpainting, Super-Resolution
Oleksii Sidorov, Jon Yngve Hardeberg (NTNU)
ICCV 2019 Workshops

Conditional GANs for Multi-Illuminant Color Constancy: Revolution or Yet Another Approach?
Oleksii Sidorov
CVPR Workshops, 2019, p. 0-0

Changing the Image Memorability: From Basic Photo Editing to GANs
Oleksii Sidorov
CVPR Workshops, 2019, p. 0-0

Changes in the Visual Appearance of Polychrome Wood Caused by (Accelerated) Aging
Oleksii Sidorov, Jon Hardeberg, Sony George, Joshua Harvey (Oxford), Hannah Smithson (Oxford)
Electronic Imaging 2020, Material Appearance

Overt visual attention on rendered 3D objects
Oleksii Sidorov, Joshua Harvey (Oxford), Hannah Smithson (Oxford), Jon Hardeberg (NTNU)
In submission

Artificial color constancy via GoogleNet with angular loss function
Oleksii Sidorov
International Journal of Imaging and Robotics, 19(3):1-10, 2019

Novel approach to uniformization of a color space via generic deep learning-based transformation
Oleksii Sidorov
Proceedings of IEEE Colour and Visual Computing Symposium 2018 (CVCS), pp. 1–4, 2018

Bayesian optimization of artificial neural network for modelling chromaticity discrimination ellipses
Oleksii Sidorov
WDS'18 Proceedings — Mathematical and Computer Modelling, pp. 62–67, 2018

Image multiplexing with laser-controlled plasmonic colors
N. Destouches, N. Sharma, O. Sidorov, N. Dalloz, C. Hubert, F. Vocanson, M. Hébert
META18 International Conference on Metamaterials, Photonic Crystals and Plasmonics

Spectral characteristics of silver nanoparticles in polyacrylamide matrix in the presence of berberine molecules
O. Sidorov, N. Bashmakova, N. Kutsevol, V. Chumachenko
Molecular Crystals and Liquid Crystals

Spectral properties of novel fluorophores synthesized from citric acid and their solutions with DNA
O.O. Sidorov, N.V. Bashmakova, V.M. Yashchuk, W. Kasprzyk, S. Bednarz, D. Bogdal
WDS'16 Proceedings of Contributed Papers — Physics, 233–238, 2016

LANGUAGES

English (fluent), Russian (native), Ukrainian (native)