Viktoriia Sharmanska, PhD

✉ *lastname.v at gmail.com*
🖥 *ilovevisiondata.wix.com/viktoriia*

Employment

Jul 2022-	**Senior Research Engineer/Computer Vision Lead, ContexAI**, *London, UK*.
Sep 2020-	**Lecturer** in Artificial Intelligence, *University of Sussex, UK*.
Apr 2021-	**Honorary Lecturer**, *Imperial College London, UK*.
2017 - 2020	Imperial College Research Fellow, *Imperial College London, UK*, Project: Deep Understanding of Human Behaviour from Video Data: Action plus Emotion Approach, Success rate 10%.
2016 - 2017	Maternity break.

Education

Sep 2010 - Jun 2015	**PhD in Computer Vision and Machine Learning**, *Institute of Science and Technology Austria*. Thesis: Learning with attributes for object recognition: parametric and non-parametric views.
Sep 2003 - Jun 2009	MSc in Applied Mathematics, *Taras Shevchenko National University of Kyiv*, Ukraine. *summa cum laude*

Professional Activities

2023	**Area Chair**, *International Conference on Learning Representations (ICLR)*.
2021	**Area Chair**, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*.
2021	**Engagements Chair**, *International Conference on Learning Representations (ICLR)*.
2019-2021	**Area Chair**, *International Conference on Learning Representations (ICLR)*.
2013-now	Reviewer, *CVPR, ICCV, ECCV, NeurIPS, ICML, ICLR, IJCAI, AAAI, CVWW 2013-2015, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), IEEE Transactions on Affective Computing, Journal of Artificial Intelligence Research (JAIR)*.
Jun 2022	Co-chair, *Workshop 3rd Workshop and Competition on Affective Behavior Analysis in-the-wild (ABAW)*, held in conjunction with the IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2022.
Jun 2018	Co-chair, *Workshop Women in Computer Vision Workshop*, held in conjunction with the IEEE Conference on Computer Vision and Pattern Recognition, CVPR 2018.
Jul 2016	Co-chair, *Workshop BeyondLabeler - Human is More Than a Labeler*, at the International Joint Conference on Artificial Intelligence, IJCAI 2016.

Honors & Awards

2019	**Outstanding Reviewer Award**, *IEEE Conference on Computer Vision and Pattern Recognition*, (CVPR).
2018	Education Research Grant, *10K$ Amazon AWS credit*, Project on deep learning for action plus emotion recognition from video data.
2017	Education Research Grant, *NVIDIA GPU Grant*.
2017	**Imperial College Research Fellowship**, *£150K*.
2016	Young Researcher Award, *Conference on Computer Vision and Pattern Recognition (CVPR)*.
2014 - 2019	Travel award, *Women in Computer Vision Workshop (WiCV), Women in Machine Learning Workshop (WiML)*.

2016	Education Research Grant, *7.5K$ Amazon AWS credit*, Project on deep convolutional neural networks for video data analysis.
2014	Google Travel award, *Neural Information Processing Systems (NeurPS)*.
2013	Travel award, *Uncertainty in Artificial Intelligence (UAI)*.
2012	Finalist, *Google Anita Borg Scholarship*.
2008 - 2009	**Winner**, *V.M.Glushkov Scholarship*. This scholarship is awarded to two students with the highest grades and social activities at the faculty of cybernetics, Taras Shevchenko National University of Kyiv.

Student Supervision

2021 - now	**Co-supervisor** to PhD student Yeat Jeng Ng (started 2020) at the Department of Informatics, University of Sussex, UK.
2018 - now	**Supervisor** to PhD student Michail Doukas (started 2018) at the Department of Computing, and second-supervisor to Barbara Metzler (started 2020) at the School of Public Health, Imperial College London, UK.

Teaching Activities

2020-2022	**Convenor**, Neural Networks (undergraduate level, 80 students), Machine Learning (postgraduate level, 150 students), University of Sussex, UK.
2019-2022	**Convenor**, Ethics, Privacy, AI in Society (postgraduate level, 60 students), Imperial College London, UK.
2018-2020	Organizer, Machine Learning tutorials, postgraduate level, Imperial College London.
2016-2019	Deep Learning, invited lectures in the Computer Vision, Machine Learning, and Neural Networks modules, undergraduate and postgraduate level, University of Sussex, UK (12 hours).
2018	Lviv data science summer school, lectures on Introduction to Computer Vision, Computer Vision for video understanding and Interpretability of automated decisions, UCU, Ukraine (4 hours).
2013, 2014	Teaching assistant, Statistical Machine Learning, Image Processing and Analysis, IST Austria.

Research Experience

2013	Visiting Researcher, *Machine Learning Group*, NICTA Sydney Research Laboratory, Australia, Collaborating with Prof. Tiberio Caetano.
2013	Visiting Student, *Computer Vision Group*, University of Texas at Austin, USA, Collaborating with Prof. Kristen Grauman.
2012 - 2013	Visiting Student, *Machine Learning Group*, University of Cambridge, UK, Collaborating with Prof. Zoubin Ghahramani.

List of publications

In computer science, different to most other areas of science, the most prestigious way is to publish in conference proceedings; these are peer-reviewed and refereed. Computer Vision and Pattern Recognition (CVPR), International Conference on Computer Vision (ICCV), and European Conference on Computer Vision (ECCV) are the top 3 conferences in Computer Vision and Pattern Recognition. Neural Information Processing Systems (NeurIPS) and International Conference on Machine Learning (ICML) are the top 2 conferences in Machine Learning. International Conference on Learning Representations (ICLR) is the top conference in deep learning.

2022   Sara Romiti, Christopher Inskip, Viktoriia Sharmanska, Novi Quadrianto, *RealPatch: A Statistical Matching Framework for Model Patching with Real Samples*, European Conference on Computer Vision (**ECCV**).

2022   Tetiana Martyniuk, Orest Kupyn, Yana Kurlyak, Igor Krashenyi, Jiri Matas, Viktoriia Sharmanska, *DAD-3DHeads: A Large-scale Dense, Accurate and Diverse Dataset for 3D Head Alignment from a Single Image*, Conference on Computer Vision and Pattern Recognition (**CVPR**).

2021   Michail C. Doukas, Stefanos Zafeiriou, Viktoriia Sharmanska, *HeadGAN: One-shot Neural Head Synthesis and Editing*, International Conference on Computer Vision (**ICCV**).

2021   Michail C. Doukas, Mohammad Rami Koujan, Viktoriia Sharmanska, Anastasios Roussos, Stefanos Zafeiriou, *Head2Head++: Deep Facial Attributes Re-Targeting*, IEEE Transactions on Biometrics, Behavior, and Identity Science (TBIOM).

2020   Viktoriia Sharmanska, Lisa Anne Hendricks, Trevor Darrell, Novi Quadrianto, *Contrastive Examples for Addressing the Tyranny of the Majority*, arXiv:2004.06524.

2020   An Hoai Truong, Viktoriia Sharmanska, Clara Limback-Stanic, Matthew Grech-Sollars, *Optimisation of deep learning methods for visualisation of tumour heterogeneity and brain tumour grading through digital pathology*, Neuro-Oncology Advances, Volume 2, Issue 1.

2019   Novi Quadrianto, Viktoriia Sharmanska, Oliver Thomas *Discovering Fair Representations in the Data Domain*, Conference on Computer Vision and Pattern Recognition (**CVPR**), USA.

2019   Dimitrios Kollias, Viktoriia Sharmanska, Stefanos Zafeiriou, *Face Behavior a la carte: Expressions, Affect and Action Units in a Single Network*s, arXiv:1910.11111, patent pending.

2019   Michail C. Doukas, Viktoriia Sharmanska, Stefanos Zafeiriou, *Video-to-Video Translation for Visual Speech Synthesis*, arXiv:1905.12043.

2017   Novi Quadrianto and Viktoriia Sharmanska, *Recycling Privileged Learning and Distribution Matching for Fairness*, Conference on Neural Information Processing Systems (**NeurIPS**), USA.

2017   Viktoriia Sharmanska and Novi Quadrianto, *In the Era of Deep Convolutional Features: Are Attributes still Useful Privileged Data?* Visual Attributes, Rogerio Feris, Devi Parikh, Christoph H. Lampert (Eds.), Springer.

2016   Viktoriia Sharmanska and Novi Quadrianto, *Learning from the Mistakes of Others: Matching Errors in Cross Dataset Learning*, Conference on Computer Vision and Pattern Recognition (**CVPR**), spotlight (9.7% acceptance rate), USA.

2016   Viktoriia Sharmanska*, Daniel Hernández-Lobato*, Miguel Hernández-Lobato, Novi Quadrianto, *Ambiguity Helps: Classification with Disagreements in Crowdsourced Annotations*, Conference on Computer Vision and Pattern Recognition (**CVPR**), USA.

2016   Joseph Taylor, Viktoriia Sharmanska, Kristian Kersting, David Weir, Novi Quadrianto, *Learning using Unselected Features (LUFe)*, International Joint Conference on Artificial Intelligence (**IJCAI**), USA.

2016   Viktoriia Sharmanska and Novi Quadrianto, *Learning using Privileged Information*, Encyclopedia of Machine Learning and Data Mining, Claude Sammut and Geoff Webb (Eds.), Springer.

2015   Anastasia Pentina, Viktoriia Sharmanska, Christoph Lampert, *Curriculum Learning of Multiple Tasks*, Conference on Computer Vision and Pattern Recognition (**CVPR**), USA.

2014   Daniel Hernández-Lobato, Viktoriia Sharmanska, Kristian Kersting, Christoph Lampert, Novi Quadrianto, *Mind the Nuisance: Gaussian Process Classification using Privileged Noise*, Conference on Neural Information Processing Systems (**NeurIPS**), Canada.

2014   Viktoriia Sharmanska, Novi Quadrianto, Christoph Lampert, *Learning to Transfer Privileged Information*, arXiv:1410.0389.

2013   Viktoriia Sharmanska, Novi Quadrianto, Christoph Lampert, *Learning to Rank Using Privileged Information*, International Conference on Computer Vision (**ICCV**), Australia.

2013   Novi Quadrianto, Viktoriia Sharmanska, David A. Knowles, Zoubin Ghahramani *The Supervised IBP: Neighbourhood Preserving Infinite Latent Feature Models*, Uncertainty in Artificial Intelligence (**UAI**), USA.

2012   Viktoriia Sharmanska, Novi Quadrianto, Christoph Lampert, *Augmented Attribute Representations*, European Conference on Computer Vision (**ECCV**), Italy.