Dr. Yulia Gryaditskaya

Senior research fellow, CVSSP, UK

✉ yulia.gryaditskaya@gmail.com
🖥 yulia.gryaditskaya.com

Employment

02/2020– present	**CVSSP**, *Surrey, UK*, Senior research fellow. Line manager: Dr. Yi-Zhe Song
02/2017– 01/2020	**Inria**, *Sophia Antipolis, France*, Postdoctoral researcher. Advisor: Dr. Adrien Bousseau
04/2014 – 09/2014	**Technicolor R & D**, *Rennes, France*, Research Internship. Advisor: Dr. Erik Reinhard
11/2012 – 12/2016	**Max Planck Institute for Informatics**, *Saarbrücken, Germany*, Ph.D candidate. Supervisors: Dr. Erik Reinhard, Prof. Dr-in.z. Karol Myszkowski, Prof. Dr. Hans Peter-Seidel

Education

11/2012 – 12/2016	**Ph.D. in Computer Graphics and Vision**, *Max Planck Institute for Informatics, Saarland University, Saarbrücken, Germany*, *Magna cum laude*. **Dissertation title:** 'High Dynamic Range Imaging: Problems of Video Exposure Bracketing, Luminance Calibration and Gloss Editing'
09/2007 – 06/2012	**Diploma in Applied Mathematics and Computer Science**, *Lomonosov Moscow State University, Russia*, Scholarship, *Excellent*. **Thesis title:** 'Truncated sequential quadratic programming method for degenerate optimization problems' Advised by Prof. Dr. Alexey F. Izmailov

Additional education

2000 – 2004	**Art school**, *Zhukovsky, Moscow region*, Russia.

Publications

Journal publications

2020	**Towards Practical Sketch-based 3D Shape Generation: The Role of Professional Sketches**, *IEEE TCSVT*. Y. Zhong, Y, Qi, **Y. Gryaditskaya**, H. Zhang, YZ. Song
2020	**Pixelor: A Competitive Sketching AI Agent. So you think you can beat me?**, *ACM Trans. on Graph. (Proc. of SIGGRAPH Asia)*. AK. Bhunia, A. Das, UR. Muhammad, Y. Yang, T. Hospedales, T. Xiang, **Y. Gryaditskaya**, Yi-Zhe Song
2020	**Lifting Freehand Concept Sketches into 3D**, *ACM Trans. on Graph. (Proc. of SIGGRAPH Asia)*. **Y. Gryaditskaya**, F. Hahnlein, C. Liu, A. Scheffer and A. Bousseau
2019	**OpenSketch: A Richly-Annotated Dataset of Product Design Sketches**, *ACM Trans. on Graph. (Proc. of SIGGRAPH Asia)*. **Y. Gryaditskaya**, M. Sypesteyn, J.W. Howtijzer, S. Pont, F. Durand and A. Bousseau.
2015	**Motion Aware Exposure Bracketing for HDR video.**, *Computer Graphics Forum (Proc. EGSR)*. **Y. Gryaditskaya**, T. Pouli, E. Reinhard, K. Myszkowski, and H.-P. Seidel.

| 2014 | **Sky Based Light Metering for HDR Images.**,
 Computer Graphics Forum (Proc. Pacific Graphics).
 Y. Gryaditskaya, T. Pouli, E. Reinhard, and H.-P. Seidel |

Conference publications

2020	**Towards 3D VR-Sketch to 3D Shape Retrieval**, *Proc. of 3DV*, (Oral). L. Luo, **Y. Gryaditskaya**, Y. Yang, T. Xiang, YZ. Song
2020	**Deep Sketch-Based Modeling: Tips and Tricks**, *Proc. of 3DV*, (Spotlight). Y. Zhong, **Y. Gryaditskaya**, H. Zhang, YZ. Song
2019	**Bitmap or Vector? A study on sketch representations for deep stroke segmentation**, *Journées Françaises d'Informatique Graphique et de Réalité Virtuelle.* F. Hahnlein, **Y. Gryaditskaya** and A. Bousseau
2016	**Gloss Editing in Light Fields**, *VMV.* **Y. Gryaditskaya**, B. Masia, P. Didyk, K. Myszkowski, and H.-P. Seidel.

Patents

| 2017 | **Method for generating an HDR image of a scene based on a tradeoff between brightness distribution and motion.**, *US Patent 9,648,251.*
 T. Pouli, **Y. Gryaditskaya**, E. Reinhard |

Thesis

| 2017 | **High dynamic range imaging: problems of video exposure bracketing, luminance calibration and gloss editing**.
 Y. Gryaditskaya |

Professional Activities

Reviewer

ACM TOG, TVCG, SIGGRAPH, SIGGRAPH Asia, Transactions on Image Processing, Eurographics, Pacific Graphics, TCSVT, Computers & Graphics, Journal of Electronic Imaging, Journal on Image and Video Processing, Multimedia Systems, CAVW

Students

2020-present	**Anran Qi**, *(coadvised with Yi-Zhe Song)*, PhD student.
2020-present	**Ling Luo**, *(coadvised with Yi-Zhe Song)*, PhD student.
2020-present	**Yue Zhong**, *(coadvised with Yi-Zhe Song)*, PhD student.
2019	**Felix Hähnlein**, *(coadvised with Adrien Bousseau)*, Research Internship: 'A study on sketch representations for deep stroke segmentation'.
2018	**Adele Saint-Denis**, *(coadvised with Adrien Bousseau)*, Research Internship: 'Non-photorealistic rendering'.
2017	**Marina Menghetti**, *(main adviser Adrien Bousseau)*, Research Internship: 'Strokes extraction from input video'.
2015	**Juliette Pelletier**, Engineering Internship: 'HDR Video Capture on a Mobile Device'.

Tutoring

| 2015, 2016 | Realistic Image Synthesis: HDR & Tone Mapping |

Invited talks

| 12/2020 | Christmas Colloquium on Computer Vision, Moscow, Russia |

Programming & Software Skills

MatLab, C/C++, Python, HTML/nodejs, Qt, libigl, WebGL, Java, LaTeX, Blender, PBRT, Adobe Photoshop/Illustrator.

Languages

English: fluent

French: intermediate

German: basics

Russian: mother tongue

Personal Interests

Drawing, reading, travelling, sports (biking, running, dancing, yoga, skiing/snowboarding, climbing, skateboarding and a few others).

December 29, 2020