

# Dr. Yulia Gryaditskaya

Postdoc, Inria

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## Employment

02/2020– **CVSSP**, *Surrey, UK*, Senior research fellow.

present Line manager: Dr. Yi-Zhe Song

02/2017– **Inria**, *Sophia Antipolis, France*, Post doctoral researcher.

01/2020 Advisor: Dr. Adrien Bousseau

04/2014 – **Technicolor R & D**, *Rennes, France*, Research Internship.

09/2014 Advisor: Dr. Erik Reinhard

11/2012 – **Max Planck Institute for Informatics**, *Saarbrücken, Germany*, Ph.D candidate.

12/2016 Supervisors: Dr. Erik Reinhard, Prof. Dr.-in.z. Karol Myszkowski, Prof. Dr. Hans Peter-Seidel

## Education

11/2012 – **Ph.D. in Computer Graphics and Vision**, *Max Planck Institute for Informatics*,

12/2016 *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 – **Diploma in Applied Mathematics and Computer Science**, *Lomonosov Moscow*

06/2012 *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 ShapeGeneration: 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. Sypeteyn, J.W. Howtjizer, 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

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## 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

## 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).

November 30, 2020