

# Ondřej Texler

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**CONTACT INFORMATION** Department of Computer Graphics and Interaction  
Faculty of Electrical Engineering  
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**PERSONAL DATA** *Date of birth:* 9th October 1992  
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**EDUCATION** **Doctoral degree study (PhD)** **2018 – Present**  
Computer Graphics, Faculty of Electrical Engineering, Czech Technical University in Prague.  
Dissertation Thesis: Example-based Style Transfer.

**Master degree study (MSc)** **2016 – 2018**  
Computer Science, Faculty of Information Technology, Czech Technical University in Prague.  
Master Thesis: Digital Image Processing and Image Stylization.

**Bachelor degree study (BSc)** **2012 – 2015**  
Computer Science, Faculty of Information Technology, Czech Technical University in Prague.  
Bachelor Thesis: Architecture design and implementation of a large software system.

**High school** **2004 – 2012**  
Mathematics, Physics, and Descriptive Geometry specialization, Gymnasium of Christian Doppler.

**PROFESSIONAL EXPERIENCE** **Intern Research Scientist, Snap Inc., Los Angeles, California** **7/2019 – 10/2019**  
*Research & Development.* Research of new techniques on training generative adversarial networks for style transfer tasks; focused on a scenario where a minimal amount of data is available, and an interactive response is required. Furthermore, developing a shader-based real-time stylization for human portraits.

**Remote Collaboration, Adobe Research, USA** **9/2017 – 12/2019**  
*Research & Development.* Remote collaboration on several research projects, publications, and tech transfer project. Computer graphics; patch-based style transfer; neural-network-based style transfer.

**Intern Research Scientist, Adobe Research, Seattle, Washington.** **7/2018 – 10/2018**  
*Research & Development.* Combining neural-network-based and patch-based style transfer methods. Chunk-based style transfer method with a focus on real-time performance.

**Intern Research Scientist, Adobe Research, San Jose, California** **9/2017 – 12/2017**  
*Research & Development.* Guiding patch-based style transfer method using convolutional neural networks, image harmonization, and histogram optimization. Integrating developed style transfer method into Adobe Photoshop.

**Software Architect and Developer, Dynavix, Prague, Czechia** **5/2014 – 9/2017**  
*Software Architecture & Development.* The navigation application for smartphones, tablets, and PND devices. C++, Java (Android), JavaEE, Objective-C (iOS), C#.

**Software Developer, World of Warcraft game server, Prague, Czechia** **2/2013 – 5/2014**  
*Software & Database Development.* The World of Warcraft game server. Extending game mechanics, scripting artificial intelligence, data-mining. C++, C#.

PUBLICATIONS	<p><b>O. Texler</b>, D. Futschik, J. Fišer, M. Lukáč, J. Lu, E. Shechtman, and D. Sýkora: <b>Arbitrary Style Transfer Using Neurally-Guided Patch-Based Synthesis</b>. In <i>Computers &amp; Graphics</i> (Elsevier, January 2020)</p> <p>O. Jamriška, Š. Sochorová, <b>O. Texler</b>, M. Lukáč, J. Fišer, J. Lu, E. Shechtman, and D. Sýkora: <b>Stylizing Video by Example</b>. In <i>ACM Transactions on Graphics 38(4):107</i> (SIGGRAPH 2019, Los Angeles, California, July 2019)</p> <p><b>O. Texler</b>, J. Fišer, M. Lukáč, J. Lu, E. Shechtman, and D. Sýkora: <b>Enhancing Neural Style Transfer using Patch-Based Synthesis</b>. In <i>Proceedings of the 8th ACM/EG Expressive Symposium, pp. 43–50</i> (Expressive 2019, Genoa, Italy, May 2019)</p> <p>D. Sýkora, O. Jamriška, <b>O. Texler</b>, J. Fišer, M. Lukáč, J. Lu, and E. Shechtman: <b>StyleBlit: Fast Example-Based Stylization with Local Guidance</b>. In <i>Computer Graphics Forum 38(2):83–91</i> (Eurographics 2019, Genoa, Italy, May 2019)</p> <p><b>O. Texler</b> and D. Sýkora: <b>Example-Based Stylization of Navigation Maps on Mobile Devices</b>. In <i>Proceedings of the 22nd Central European Seminar on Computer Graphics.</i>, (CESCG 2018, Smolenice, Slovakia, 2018)</p>
COMPUTER SCIENCE & PROGRAMMING SKILLS	<p><b>Academic / Research &amp; Development</b> 4 years of conducting research and publishing of scientific papers.</p> <p><b>Computer Graphics / Computer Vision</b> 4 years of academic and practical experience (shaders, CUDA, OpenCV).</p> <p><b>Deep Learning / Convolutional Neural Networks / GANs</b> 2 years of practical and theoretical experience (PyTorch, NumPy, SciPy).</p> <p><b>Software Architecture &amp; Development</b> 6 years of practical experience.</p> <p><b>C/C++11/14</b> <i>Proficient.</i> 7 years of practical experience.</p> <p><b>Java, Android</b> <i>Proficient.</i> 6 years of experience in Java; 5 years of experience in Android.</p> <p><b>Python</b> <i>Advanced.</i> 2 year of practical experience; machine learning, data-science.</p> <p><b>C#, Objective-C</b> <i>Intermediate.</i> 2 years of practical experience.</p>
STUDENT SUPERVISION	<p><b>CTU in Prague:</b> A. Moravcová (MSc), A. Sternwaldová (MSc)</p>
NATIONAL LANGUAGES	<p><b>Czech language:</b> <i>Native speaker</i></p> <p><b>English language:</b> <i>Fluent</i></p> <p><b>Russian language:</b> <i>Beginner</i></p>