Ondřej Texler

Contact Information

Department of Computer Graphics and Interaction
Faculty of Electrical Engineering
Czech Technical University in Prague
Karlovo náměstí 13, 121 35 Prague 2, CZ

Personal Data

Date of birth:	9th October 1992
E-mail:	ondrej.texler@gmail.com
Nationality:	Czech
LinkedIn:	https://www.linkedin.com/in/ondrej-texler
www:	https://ondrejtexler.github.io

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**
Software Engineering, Faculty of Information Technology, Czech Technical University in Prague.
Master Thesis: Digital Image Processing and Image Stylization.

Bachelor degree study (BSc) **2012 – 2015**
Software Engineering, 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 – 10/2108**
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 – 12/2107**
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

O. Texler, D. Futschik, J. Fišer, M. Lukáč, J. Lu, E. Shechtman, and D. Sýkora: **Arbitrary Style Transfer Using Neurally-Guided Patch-Based Synthesis.** In *Computers & Graphics* (Elsevier, January 2020)

O. Jamriška, Š. Sochorová, **O. Texler**, M. Lukáč, J. Fišer, J. Lu, E. Shechtman, and D. Sýkora: **Stylizing Video by Example.** In *ACM Transactions on Graphics 38(4):107* (SIGGRAPH 2019, Los Angeles, California, July 2019)

O. Texler, J. Fišer, M. Lukáč, J. Lu, E. Shechtman, and D. Sýkora: **Enhancing Neural Style Transfer using Patch-Based Synthesis.** In *Proceedings of the 8th ACM/EG Expressive Symposium, pp. 43–50* (Expressive 2019, Genoa, Italy, May 2019)

D. Sýkora, O. Jamriška, **O. Texler**, J. Fišer, M. Lukáč, J. Lu, and E. Shechtman: **StyleBlit: Fast Example-Based Stylization with Local Guidance.** In *Computer Graphics Forum 38(2):83–91* (Eurographics 2019, Genoa, Italy, May 2019)

O. Texler and D. Sýkora: **Example-Based Stylization of Navigation Maps on Mobile Devices.** In *Proceedings of the 22nd Central European Seminar on Computer Graphics.*, (CESCG 2018, Smolenice, Slovakia, 2018)

Computer Science & Programming Skills

Software Architecture & Development
Advanced. 6+ years of practical experience.

Academic / Research & Development
Advanced. 4+ years of academic and practical experience.

Deep Learning / Convolutional Neural Networks / GANs
Advanced. 2+ years of practical and theoretical experience.

C/C++11/14
Proficient. 7+ years of practical experience.

Android (Java)
Proficient. 6+ years of experience in Java; 5+ years of experience in Android.

Python
Advanced. 2+ year of practical experience; machine learning, data-science.

JavaEE
Advanced. 2 years of practical experience.

C#
Intermediate. 2 years of practical experience.

Objective-C
Intermediate. 1 year of practical experience.

Student Supervision

CTU in Prague:
A. Moravcová (MSc), A. Sternwaldová (MSc)

National Languages

Czech language: *Native speaker*
English language: *Fluent*
Russian language: *Beginner*