

Tomáš SKŘIVAN

PERSONAL DATA

PLACE AND DATE OF BIRTH: Czech Republic | 16 August 1991
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EDUCATION

Discontinued **IST Austria**
2016 - 2020 Doctoral study in computer graphics
Advisor: Chris Wojtan

2014 - 2016 **Charles University**, Faculty of Mathematics and Physics
Master study program: *Mathematical Modelling in Physics and Technology*
Thesis: *Shear and vorticity banding*
Advisor: Vít Průša

2010 - 2014 **Charles University**, Faculty of Mathematics and Physics
Bachelor study program: *Mathematics*
Thesis: *3D Texture deformation according to a polygonal model*
Advisor: Jaroslav Křivánek

EXPERIENCE

Nov 2018 - Feb 2019 **Weta Digital**
Simulation Intern

PUBLICATIONS

- Tomáš Skřivan, Andreas Söderström, John Johansson, Christoph Sprenger, Ken Museth, and Chris Wojtan. Wave curves: Simulating lagrangian water waves on dynamically deforming surfaces. *ACM Transactions on Graphics (TOG)*, 39(4), 2020
- Ivo Kondapaneni, Petr Vévoda, Pascal Grittmann, Tomáš Skřivan, Philipp Slusallek, and Jaroslav Křivánek. Optimal multiple importance sampling. *ACM Transactions on Graphics (TOG)*, 38(4):1–14, 2019
- Ondřej Karlík, Martin Šik, Petr Vévoda, Tomáš Skřivan, and Jaroslav Křivánek. Mis compensation: Optimizing sampling techniques in multiple importance sampling. *ACM Transactions on Graphics (TOG)*, 38(6):1–12, 2019

- Mark Dostálík, Vít Průša, and Tomáš Skřivan. On diffusive variants of some classical viscoelastic rate-type models. In *AIP Conference Proceedings*, volume 2107, page 020002. AIP Publishing LLC, 2019
- Stefan Jeschke, Tomáš Skřivan, Matthias Müller-Fischer, Nuttapong Chentanez, Miles Macklin, and Chris Wojtan. Water surface wavelets. *ACM Transactions on Graphics (TOG)*, 37(4):1–13, 2018
- Josef Málek, Vít Průša, Tomáš Skřivan, and Endre Süli. Thermodynamics of viscoelastic rate-type fluids with stress diffusion. *Physics of Fluids*, 30(2):023101, 2018
- Michal Mojžík, Tomáš Skřivan, Alexander Wilkie, and Jaroslav Křivánek. Bi-directional polarised light transport. In *EGSR (EI&I)*, pages 97–108, 2016

TEACHING

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| Fall 2015 | Mathematical Analysis I - teaching assistant
Charles University, Faculty of Mathematics and Physics |
| Spring 2016 | Mathematical Analysis II - teaching assistant
Charles University, Faculty of Mathematics and Physics |

OTHER

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| LANGUAGES: | Czech(native), English(fluent) |
| PROGRAMMING: | C++, D, Python, Houdini VEX, Coq |
| SOFTWARE: | Git, CMake, Mathematica, Houdini, Emacs |