

Baptiste Nicolet

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PhD student at EPFL

Education

- 2020 - 2024 **PhD, Computer Science**, EPFL, Lausanne, Switzerland.
PhD student in the Realistic Graphics lab, supervised by Prof. Dr. Wenzel Jakob. Working on differentiable rendering.
- 2019 - 2020 **M.S., Computer Science**, Télécom Paris, Palaiseau, France.
"Computer Graphics and Human-Computer Interaction" track.
- 2018 - 2019 **M.S., Computer Science**, École polytechnique, Palaiseau, France, 3.87 GPA.
"Image, Vision, and Machine Learning" track.
- 2016 - 2018 **Gradué en Ingénierie (Bachelor equivalent)**, École polytechnique, Palaiseau, France, 3.62 GPA.
- 2014 - 2016 **Classes Préparatoires**, Collège Stanislas, Paris, France, 4.0 GPA.
As France's most prestigious universities (Grandes Écoles) select their student from a highly competitive entrance examination, students must go through two years of preparation, called *Classes préparatoires*

Publications

- Dec 2021 **Large steps in inverse rendering of geometry**, *ACM Transactions on Graphics (Proceedings of SIGGRAPH Asia), 2021*.
Baptiste Nicolet, Alec Jacobson, Wenzel Jakob
- May 2020 **Repurposing a relighting network for realistic compositions of captured scenes**, *Proceedings of the ACM SIGGRAPH Symposium on Interactive 3D Graphics and Games, May 2020*.
Baptiste Nicolet, Julien Philip, George Drettakis.
- May 2020 **Pair correlation functions with free-form boundaries for distribution inpainting and decomposition**, *Eurographics, 2020*.
Baptiste Nicolet, Pierre Ecomier-Nocca, Pooran Memari, Marie-Paule Cani.

Experience

Community

- 2021 - **Technical papers reviewer**.
present Transactions on Graphics, Computer Graphics Forum
- 2021 **Invited speaker**, *Toronto Geometry Colloquium*, 📺 Recording.
Presented my work on inverse rendering of geometry.

Internships

- 2022 **Research Intern**, *NVIDIA*, Zürich, Switzerland,
Supervisor: **Aaron Lefohn**.
◦ Investigated different approaches to leverage control variates for differentiable rendering.
- 2019 **Master Thesis**, *INRIA*, Sophia-Antipolis, France,
Supervisor: **Prof. Dr. George Drettakis**.
◦ Explored using a relighting network to allow compositions of IBR scenes.
◦ Work published at *I3D 2020*.
- 2018 **Software Developer Intern**, *PM SCADA*, Montréal, Canada.
◦ 3-month internship working along with the Montréal computer science research center (CRIM) to develop innovative solutions in cybersecurity.
◦ Designed and programmed automated penetration testing tools.
- 2016 - 2017 **Emergency Response Team Leader**, *Paris Military Fire Brigade (BSPP)*, Vitry-sur-Seine, France.
◦ Leader of an emergency response vehicle (3 EMTs).
◦ Managed urgent and difficult emergency situations, during 24h shifts.
◦ Coached servicemen for promotion exams.

Teaching

- 2021 - Today **Teaching Assistant**, *EPFL*, Lausanne, Switzerland.
Advanced Computer Graphics (Master), Numerical Methods for Visual Computing (Bachelor)
- 2017 - 2018 **Teaching Assistant**, *Collège Stanislas*, Paris, France, *2h*.
In charge of weekly oral examinations in mathematics for first-year undergraduates.

Skills

- Programming C++, Python, Java,
Frameworks CUDA, OpenGL/GLSL, PyTorch, TensorFlow/Keras
Languages French - *Native*; English - *Fluent (TOEFL 115)*; Spanish - *Intermediate*; German - *Beginner*