

# Grégoire DUPONT de DINECHIN – PhD, Engineer

MINES ParisTech, PSL University - Paris, France



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## R&D Software Engineer – Virtual Reality, 3D Graphics

Interested in opportunities in 3D/VR/AR starting January 2021

Unity3D C# Python Research

Computer graphics Virtual reality

### Languages

Native/fluent Intermediate

French English Spanish

## Experience

**PhD candidate** @ MINES ParisTech, PSL University – 09/2017-12/2020 Paris, FR

I implement and evaluate image-based rendering methods for bringing real-world objects into virtual reality, which I make available as open-source tools for the Unity game engine. I also review and publish research in international conferences, and was teaching assistant and speaker for university-level courses.

**Skills:** Unity, C# and GPU programming with shaders, compatibility with OpenGL/DirectX, Python for deep learning, VR UX research, scientific literature reviews, view-dependent rendering from photographs, photogrammetry and 3D reconstruction.

**R&D Intern** @ Rakuten Institute of Technology – 03/2017-09/2017 Paris, FR

I developed and evaluated two proof-of-concept virtual reality experiences for the retail and sports industries, as an intern in the R&D section of Rakuten.

**Skills:** VR application development (Unity, C#), collaborative code projects with Git.

**Research Intern** @ RWTH Aachen University – 06/2016-10/2016 Aachen, DE

I developed a virtual driving simulator and led a user study as part of research on training for semi-autonomous car driving in virtual reality.

**Skills:** VR application development (C++, Unity, C#), UX research.

## Education

**PhD** – Virtual reality, image-based rendering  
2017-2020 @ MINES ParisTech, PSL University

**Engineer's Degree** – Master's Degree in Science and Executive Engineering  
2014-2017 @ MINES ParisTech, PSL University (École d'Ingénieurs)  
2012-2014 @ Lycée Privé Sainte-Geneviève (Prépa MPSI/MP\*)

**French General Baccalaureate** – Scientific Section, British International Option (OIB)  
2009-2012 @ Institut Fénélon (International section)