VINCENT SITZMANN

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PROFESSIONAL EXPERIENCE

MIT Computer Science & Artificial Intelligence Lab — **Cambridge, MA**
Postdoctoral Researcher with Prof. Joshua Tenenbaum — *July 2020 – Present*

Google AI — **New York City, NY**
Research Intern — *June 2019 – January 2020*

Bridgewater Associates — **Westport, CT**
Investment Associate Intern — *June 2017 – August 2017*

Investiert AG — **Munich, Germany**
Co-Founder — *Feb 2015 – Sep 2015*

BYD New Energy Business Development — **Shenzhen, China**
Business Development Intern — *Jan 2014 – Apr 2014*

EDUCATION

Stanford University — **Sep 2017 – July 2020**
Ph.D. in Electrical Engineering, ***Stanford Graduate Fellow (Sequoia Capital***) — *GPA 4.0 / 4.0*
- Research in self-supervised perception for AI.
- Advisor: Prof. Gordon Wetzstein.

Stanford University — **Sep 2015 – Jun 2017**
Master studies in Computer Science, ***Fulbright Fellow*** — *GPA 4.0 / 4.0*

Hong Kong University of Science and Technology — **Sep 2013 – Jan 2014**
Exchange Semester — *GPA 4.23/4.3*

Technical University of Munich — **Oct 2011 – Apr 2015**
Bachelor studies in Electrical Engineering — *GPA 3.8 / 4.0*
- Degree awarded with high distinction (top 3% of class)
- Honors Degree in Technology Management from Center of Digital Technology and Management

FELLOWSHIPS & AWARDS

NeurIPS Honorable Mention: Outstanding New Directions	2019
Stanford Graduate Fellowship	2017
Scholarship of the German Academic Exchange Service	2016
Full Fulbright Fellowship	2015
Scholarship of the Lothar and Sigrid Rohde-Foundation	2014
Scholarship of the German National Academic Foundation	2013
Scholarship of the Max-Weber Program of Bavaria	2013

PUBLICATIONS

Sitzmann, V., Zollhöfer, M., Wetzstein, G., *Scene Representation Networks: Continuous 3D-Structure-Aware Neural Scene Representations.* NeurIPS 2019 (Oral, Honorable Mention: Outstanding New Directions).

Sitzmann, V., Thies, J., Heide, F., Niessner, M., Wetzstein, G., Zollhöfer, M., *DeepVoxels: Learning Persistent 3D Feature Embeddings.* CVPR 2019 (Oral).

Chang, J., **Sitzmann, V.**, Wetzstein, G*., Hybrid optical-electronic convolutional neural networks with optimized diffractive optics for image classification.* Scientific Reports 2018.

Sitzmann, V.*, Diamond, S.*, Peng, Y.*, Dun, X., Boyd, S., Heidrich, W., Heide, F., Wetzstein, G., *End-to-end Optimization of Optics and Image Processing for Achromatic Extended Depth of Field and Super-resolution Imaging,* SIGGRAPH 2018. (* signifies equal contribution)

Sitzmann, V. *, Serrano, A. *, Pavel, A., Agrawala, M., Gutierrez, D., Wetzstein, G., *Saliency in VR: How do we explore virtual environments?* IEEE VR 2018. (* signifies equal contribution)

Padmanaban, N., Ruban, T., **Sitzmann, V.**, Norcia, A., Wetzstein, G., *Towards a Machine-learning Approach for Sickness Prediction in Virtual Environments,* IEEE VR 2018.

Serrano, A., **Sitzmann, V.**, Ruiz-Borau, J., M., Wetzstein, G., Gutierrez, D., Masia, B., *Movie editing and cognitive event segmentation in virtual reality video,* ACM Transactions on Graphics (TOG).

Diamond, S., **Sitzmann, V**., Boyd, S., Wetzstein, G., Heide, F., *Dirty pixels: Optimizing image classification architectures for raw sensor data.* In submission.

NON-REFEREED PUBLICATIONS

Sitzmann, V.*, Julien Martel*, Alexander Bergman, David Lindell, Wetzstein, G., *Implicit Neural Representations with Periodic Activation Functions*, arXiv (in submission).

Sitzmann, V.*, Eric Chan*, Richard Tucker, Noah Snavely, Wetzstein, G., *MetaSDF: Meta-learning Signed Distance Functions*, arXiv (in submission).

Diamond, S.*, **Sitzmann, V.***, Heide, F., Wetzstein, G., *Unrolled Optimization with Deep Priors*, arXiv (in submission).

STUDENTS SUPERVISED

Eric Ryan Chan, Stanford (EE)	2019 – 2020
Amit Pal Kohli, Stanford (EE), now PhD at UC Berkeley	2019 – 2020
Nicholas Strauch Gaudio, Stanford (EE)	2019 – 2019

TUTORIALS & WORKSHOPS

Learning 3D Representations for Shape and Appearance **August 2020**
ECCV 2020, Glasgow, UK

Neural Rendering **June 2020**
CVPR 2020 Tutorial, Seattle, WA, USA

State of the Art on Neural Rendering **May 2020**
Eurographics 2020, State-of-the-Art Reports Program, Norrköping, Sweden

PRESENTATIONS & INVITED TALKS

University of Toronto, Machine Learning Group **Toronto, CA**
Implicit Neural Scene Representations *August 2020*

Oxford Visual Geometry Group **Oxford, UK**
Implicit Neural Scene Representations *August 2020*

Carnegie Mellon Vision and Autonomous Systems Seminar **Pittsburgh, USA**
Implicit Neural Scene Representations *August 2020*

University of Bath, Visual Computing Group **Bath, UK**
Implicit Neural Scene Representations *August 2020*

ICML 2020, Workshop for Object-Oriented Representations **Vienna, Austria**

Autonomous Vision Group, Max Planck Institute **Tübingen, Germany**
Implicit Neural Scene Representations *July 2020*

Visual Computing Lab, Technical University of Munich **Munich, Germany**
Implicit Neural Scene Representations *July 2020*

Adobe Research **San Jose, USA**
Self-supervised Scene Representation Learning *March 2020*

Google DeepMind **London, UK**
Self-supervised Scene Representation Learning *March 2020*

Apple Research **Seattle, USA**
Self-supervised Scene Representation Learning *Jan 2020*

Google AI **Toronto, Canada**
Self-supervised Scene Representation Learning *Jan 2020*

Nvidia Research **San Jose, USA**
Self-supervised Scene Representation Learning *Jan 2020*

SIGGRAPH 2018 **Vancouver, Canada**
Saliency in VR *August 2018*

University of Tübingen, Graphics Department **Tübingen, Germany**
Learning Domain-Specific Cameras *March 2018*

Max-Planck Institute for Informatics, Graphics Department **Saarbrücken, Germany**
Learning Domain-Specific Cameras *March 2018*