



# DR. SHOHEI MORI

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## EDUCATION

<b>Doctor of Engineering</b> Graduate School of Information Science and Engineering, Ritsumeikan University	April 2013 – March 2016 Shiga, Japan
<b>Master of Engineering</b> Graduate School of Information Science and Engineering, Ritsumeikan University	April 2011 – March 2013 Shiga, Japan
<b>Bachelor of Science</b> Ritsumeikan University	April 2007 – March 2011 Shiga, Japan

## WORK EXPERIENCE

<b>Postdoctoral Researcher (University Assistant)</b> Graz University of Technology	October 2022 – Present Styria, Austria
<b>Postdoctoral Researcher (University Project Assistant)</b> Graz University of Technology	October 2018 – September 2022 Styria, Austria
<b>Guest Lecturer (Global)</b> Keio University	April 2021 – Present Kanagawa, Japan
<b>Guest Researcher (University Project Assistant)</b> Graz University of Technology	August 2017 – September 2018 Styria, Austria
<b>Visiting Researcher (JSPS PD)</b> Keio University	April 2016 – September 2018 Kanagawa, Japan
<b>Research Fellow (JSPS DC-1)</b> Ritsumeikan University	April 2013 – March 2016 Shiga, Japan

## TEACHING

“Augmented Reality,” TUGraz, in collab. w/ D. Kalkofen (WS18–21) | P. Roth (WS18 & 19) | A. Plopski (WS22 & 23)  
“Research Seminar - Virtual Reality,” TUGraz (WS22–23)  
“Virtual Reality,” TUGraz, in collab. w/ D. Schmalstieg (SS22)  
“Biomedical Visualization | AK Computergraphics,” TUGraz, in collab. w/ D. Kalkofen (WS22 & 23)  
“Realtime Visualisation,” FHSalzburg, in collab. w/ M. Tatzgern (WS20 – 23)  
“Experiments in Media Technology - Virtual/Mixed Reality,” Ritsumeikan University, TA (2011, 2012)

## PROJECTS

**FWF - Real-time Three-dimensional Diminished Reality - P33634** Co-Investigator (January 2021–December 2024)  
**Ritsumeikan Global Innovation Research Organization (R-GIRO) - An Interdisciplinary Research Center on Supporting Cognitive and Communication for Elderly** Project Member (April 2021–March 2026)  
**Grant-in-Aid for Young Scientists (B) - 17K12729** Principal Investigator (April 2017–September 2018)  
**Grant-in-Aid for JSPS Fellows (PD) - 16J05114** Research Fellow (April 2016–September 2018)  
**Grant-in-Aid for JSPS Fellows (DC-1) - 13J09193** Research Fellow (April 2013–March 2016)  
**Grant-in-Aid for Scientific Research (S) - 24220004** Research Collaborator (May 2012–March 2017)

## SERVICE

**IPC member / DC co-chair / We co-chair / Demo co-chair** IEEE VR (2019–2023), IEEE ISMAR (2020–2023), 3DWeb (2020), ICAT-EGVE (2017) / IEEE ISMAR (2020, 2023) / IEEE VR (2019) / IEEE ISMAR (2018)  
**Academic Journal Committee** The Virtual Reality Society of Japan (2020 – Present)  
**Support Member** ISO/IEC JTC 1/SC 24/WG 9 (AR continuum concepts and reference model) (2016–2019), TrakMark (Benchmark test schemes for AR/MR geometric registration and tracking methods) (2015, 2016)  
**Peer-review (Journal)** IEEE TVCG (2018, 2020–2023), IEEE CG&A (2020), IEEE TIM (2020), IEEE TOM (2016, 2021, 2022), Frontiers in Virtual Reality (2021), etc.  
**Peer-review (Conference)** IEEE VR (2018–2023), IEEE ISMAR (2017–2023), ACM CHI (2020, 2023), IEEE InfoVis (2020), ACM VRST (2019), AH (2019), ICAT-EGVE (2017, 2019), ACM 3DWeb (2020), APMAR (2018, 2019), etc.

## SKILLS

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**Languages:** Japanese (Native), English (TOEIC: 830), German (Novice)

**Programming:** C++, OpenGL/GLSL, Python, PyTorch, C# (Unity), R

**National Examination:** Applied Information Technology Engineer, Fundamental Information Technology Engineer

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## AWARDS AND SCHOLARSHIPS

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**Best Paper / Demo / Presentation / Reading Group Award:** IEEE ISMAR (2021, 2023), IEEE VR (2022), IEEEJ (2022), JSCAS (2022), IEEE Workshop KELVAR (2020) / IEEE ISMAR (2015) / KJMR (2014, 2015) / ICVSS (2016)

**Scholarship:** Ritsumeikan University Saionji Graduate School Encouragement Scholarship (For the top graduate) (2011) / Saionji Ikuei Scholarship (For the top three high achievers) (2008 – 2010) / Dean Award (2009) / Education Award (2007, 2008)

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## 10 SELECTED PUBLICATIONS (FULL LIST: [MY PERSONAL WEBSITE](#))

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1. Reina Ishikawa, Hideo Saito, Denis Kalkofen, and [Shohei Mori](#), *Multi-layer Scene Representation from Composed Focal Stacks*, IEEE Trans. on Visualisation and Computer Graphics (TVCG), Special Issue IEEE ISMAR, Vol. 29, Issue 11, pp. 4719–4729 (2023.11) 🏆 **Best Journal Paper Award**
  2. [Shohei Mori](#), Dieter Schmalstieg, and Denis Kalkofen, *Exemplar-Based Inpainting for 6DOF Virtual Reality Photos*, IEEE Trans. on Visualisation and Computer Graphics (TVCG), Special Issue IEEE ISMAR, Vol. 29, Issue 11, pp. 4644–4654 (2023.10) 🏆 **Best Journal Paper Award Nominee**
  3. [Shohei Mori](#), Dieter Schmalstieg, and Denis Kalkofen, *Good Keyframes to Inpaint*, IEEE Trans. on Visualisation and Computer Graphics (TVCG), Vol. 29, Issue 9, pp. 3989–4000 (2022.5) ☑ **Invited TVCG Paper at IEEE ISMAR 2022**
  4. Christoph Ebner, [Shohei Mori](#), Peter Mohr, Yifan Peng, Dieter Schmalstieg, Gordon Wetzstein, and Denis Kalkofen, *Video See-Through Mixed Reality with Focus Cues*, IEEE Trans. on Visualisation and Computer Graphics (TVCG), Special Issue IEEE VR (2022.3) 🏆 **Best Journal Paper Award**
  5. [Shohei Mori](#), Yuta Kataoka, and Satoshi Hashiguchi, *Exploring Pseudo-Weight in Augmented Reality Extended Displays*, Proc. IEEE Virtual Reality (2022.3)
  6. David Mandl, Peter Mohr, Tobias Langlotz, Christoph Ebner, [Shohei Mori](#), Stefanie Zollmann, Peter Roth, and Denis Kalkofen, *Neural Cameras: Learning Camera Characteristics for Coherent Mixed Reality Rendering*, Proc. IEEE Symp. on Mixed and Augmented Reality (ISMAR) (2021.10) 🏆 **Best Conference Paper Award**
  7. [Shohei Mori](#), Okan Erat, Wolfgang Broll, Hideo Saito, Dieter Schmalstieg, and Denis Kalkofen, *InpaintFusion: Incremental RGB-D Inpainting for 3D Scenes*, IEEE Trans. on Visualisation and Computer Graphics (TVCG), Vol. 26, Issue 10 (2020.10) ☑ **Invited TVCG Paper at IEEE ISMAR 2020**
  8. Masahiro Yamaguchi, [Shohei Mori](#), Peter Mohr, Markus Tatzgern, Ana Stanescu, Hideo Saito, and Denis Kalkofen, *Video-Annotated Augmented Reality Assembly Tutorials*, Proc. ACM Symp. on User Interface Software and Technology (UIST), pp. 1010–1022 (2020.10)
  9. Peter Mohr-Ziak, [Shohei Mori](#), Tobias Langlotz, Bruce H. Thomas, Dieter Schmalstieg, and Denis Kalkofen, *Mixed Reality Light Fields for Interactive Remote Assistance*, Proc. ACM CHI Conf. on Human Factors in Computing Systems (CHI) (2020.4)
  10. [Shohei Mori](#), Sei Ikeda, Alexander Plopski, and Christian Sandor, *BrightView: Increasing Perceived Brightness of Optical See-Through Head-Mounted Displays Through Unnoticeable Incident Light Reduction*, Proc. IEEE Virtual Reality (2018.3)
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## TUTORIALS

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[Shohei Mori](#) and Richard Skarbez, *A Beginner's Guide to Neural Rendering*, IEEE ISMAR 2023 (2023.10.20)

Denis Kalkofen, [Shohei Mori](#), and Markus Tatzgern, *Rendering and Visualization in Mixed Reality*, Eurographics 2021 (2021.5.4)

[Shohei Mori](#), *Diminished Reality Tutorial*, IEEE ISMAR 2014 (2014.9.9)

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## INVITED TALKS

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[Shohei Mori](#), *How Far Can We Go for Diminished Reality Without Neural Networks?*, Workshop on Inpainting techniques for Object Removal in Indoor Scenes (IEEE ISMAR 2022 Workshop) (2022.10.21), etc.

[Shohei Mori](#) and Hideo Saito, *Augmented Visualization: Observing as Desire*, Asia-Pacific Signal and Information Processing Association Annual Summit and Conf. (APSIPA ASC) 2017 (2017.12.13)

[Shohei Mori](#), *Augmented and Diminished Reality: Computational Imaging of Existence and Non-Existence*, Int. Display Workshop (IDW) 2017 (2017.12.8)