

## Interests

Human-computer interaction, 3D user interfaces, virtual and tangible, fabrication, collocated and remote collaboration, holograms, machine learning, large language models, augmented reality, mixed reality, and virtual reality.

## Short bio

I am a Postdoctoral Fellow at the [DGP Lab](#), Department of Computer Science of the University of Toronto working with [Professor Tovi Grossman](#). Previously, I was a researcher at the Visualization and Intelligent Multimodal Interfaces Group (VIMMI), University of Lisbon, under the supervision of [Professor Joaquim Jorge](#). I received my PhD, MSc and BSc degrees in Computer Science and Engineering from Instituto Superior Técnico, University of Lisbon. In my research, I have been designing and evaluating novel interaction techniques for engineering, architectural, and medical fields, focusing on computer-supported remote collaborative work in mixed reality. I also have experience in 3D and spatial user interfaces, virtual and tangible remote collaboration, mixed reality, fabrication, and actuated tangible interfaces applied to human-computer interaction. My research has been published in top international conferences and journals, such as ACM CHI, ACM UIST, ACM ISS, ACM IUI, ACM VRST, IEEE VR, INTERACT, IJHCS, and IEEE TVCG. I am currently a member of the organizing committee of the international conferences ACM ISS 2022 and IEEE VR 2023.

## Education

<b>Ph.D. in Computer Science and Engineering</b> Instituto Superior Técnico, University of Lisbon Thesis: <i>Perception Manipulation for Seamless Face-to-face Remote Collaboration</i> <i>Summa Cum Laude</i> (highest honour for Doctoral Degree) Advisor: Prof. Joaquim Jorge Committee: Prof. Anthony Steed, Prof. Pedro Campos, Prof. Carlos Martinho, Prof. Miguel Sales Dias, and Prof. Pavão Martins	<b>2020</b>
<b>M.Sc. in Information Systems and Computer Engineering</b> Instituto Superior Técnico, University of Lisbon Thesis: <i>Remote Proxemics for Collaborative Virtual Environments</i> Advisors: Prof. Joaquim Jorge, and Prof. Alfredo Ferreira Committee: Prof. Carlos Duarte, and Prof. Pedro Sousa	<b>2014</b>
<b>B.Sc. in Information Systems and Computer Engineering</b> Instituto Superior Técnico, University of Lisbon	<b>2012</b>

## Experience

### DGP LAB, Dep of Computer Science, University of Toronto

2020 - Present

*Postdoctoral Fellow*

Researching, designing, and evaluating novel interaction techniques. Mentoring and supporting 13 undergraduate and graduate students.

### Champalimaud Center for the Unknown

2018 - 2020

*Researcher*

Researching, designing, and evaluating novel mixed reality interaction techniques for minimally invasive laparoscopic surgery.

### INESC-ID, Visualization and Intelligent Multimodal Interfaces

2012 - 2020

*Researcher*

Researching, designing, and evaluating novel interaction techniques in 3D user interfaces for collocated and remote collaboration using head-mounted displays, walls, tabletops, mobiles, large-scale displays, and wearables. Managing and maintaining VIMMI's media lab.

## Publications

25 conference proceedings, 7 journal articles, and 2 book chapters.

630+ citations, h-index 16 ([Google Scholar](#)).

### Peer-reviewed Conference Proceedings

- C25 **EnchantedBrush: Animating in Mixed Reality for Storytelling and Communication** Eve Mingxiao Li, Anran Qi, Mauricio Sousa, and Tovi Grossman. ACM GI Graphics Interface Conference, 2023.  
*Conditionally Accepted*
- C24 **Stargazer: An Interactive Camera Robot for Capturing How-To Videos Based on Subtle Instructor Cues** Jiannan Li, Mauricio Sousa, Karthik Mahadevan, Bryan Wang, Paula Akemi Aoyagui, Nicole Yu, Angela Yang, Ravin Balakrishnan, Anthony Tang, and Tovi Grossman. ACM Conference on Human Factors in Computing Systems (CHI), 2023.
- C23 **Investigating Guardian Awareness Techniques to Promote Safety in Virtual Reality.** Sixuan Wu, Jiannan Li, Maurício Sousa, and Tovi Grossman. IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR), 2023.
- C22 **MAGIC: Manipulating Avatars and Gestures to Improve Remote Collaboration.** Catarina G. Fidalgo, Mauricio Sousa, Daniel Mendes, Rafael dos Anjos, Daniel Medeiros, Karan Singh, and Joaquim Jorge. IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR), 2023.
- C21 **Touching The Droid: Understanding and Improving Touch Precision With Mobile Devices in Virtual Reality.** Fengyuan Zhu, Zhuoyue Lyu, Mauricio Sousa, and Tovi Grossman. IEEE International Symposium on Mixed and Augmented Reality (ISMAR), 2022
- C20 **immersivePOV: Filming How-To Videos with a Head-Mounted 360° Action Camera.** Kevin Huang, Jiannan Li, Mauricio Sousa, and Tovi Grossman. ACM Conference on Human Factors in Computing Systems (CHI), 2022.  
**Honorable Mention Award**
- C19 **ASTEROIDS: Exploring Swarms of Mini-Telepresence Robots for Physical Skill Demonstration.** Jiannan Li, Mauricio Sousa, Chu Li, Jessie Liu, Yan Chen, Ravin Balakrishnan, and Tovi Grossman. ACM Conference on Human Factors in Computing Systems (CHI), 2022.

- C18 **Route Tapestries: Navigating 360° Virtual Tour Videos Using Slit-Scan Visualizations.** Jiannan Li, Jiahe Lyu, Maurício Sousa, Ravin Balakrishnan, Anthony Tang, and Tovi Grossman. ACM Symposium on User Interface Software and Technology (UIST), 2021
- C17 **Promoting Reality Awareness in Virtual Reality through Proxemics.** Daniel Medeiros, Rafael dos Anjos, Nadia Pantidi, Kun Huang, Maurício Sousa, Craig Anslow and Joaquim Jorge. IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR), 2021.
- C16 **“Grip-that-there”: An Investigation of Explicit and Implicit Task Allocation Techniques for Human-Robot Collaboration.** Karthik Mahadevan, Maurício Sousa, Anthony Tang, and Tovi Grossman. ACM Conference on Human Factors in Computing Systems (CHI), 2021.  
**Honorable Mention Award**
- C15 **Negative Space: Investigating Workspace Awareness in 3D Face-to-face Remote Collaboration.** Maurício Sousa, Daniel Medeiros, and Joaquim Jorge. ACM SIGGRAPH International Conference on Virtual-Reality Continuum and its Applications in Industry (VRCAI), 2019
- C14 **Safe Walking in VR.** Maurício Sousa, Daniel Medeiros, Francisco Venda, and Joaquim Jorge. ACM SIGGRAPH International Conference on Virtual-Reality Continuum and its Applications in Industry (VRCAI), 2019
- C13 **Adventures in Hologram Space: Exploring the Design Space of Eye-to-eye Volumetric Projection-based Telepresence.** Rafael Kuffner dos Anjos, Maurício Sousa, Daniel Medeiros, Daniel Mendes, Mark Billinghurst, Craig Anslow and Joaquim Jorge. ACM Symposium on Virtual Reality Software and Technology (VRST), 2019
- C12 **WARPING DEIXIS: Distorting Gestures to Enhance Collaboration.** Maurício Sousa, Rafael Kuffner Dos Anjos, Daniel Mendes, Mark Billinghurst, and Joaquim Jorge. ACM Conference on Human Factors in Computing Systems (CHI), 2019  
**Featured in the 'Best of CHI 2019' event by IndiaHCI**
- C11 **Using Custom Transformation Axes for Mid-Air Manipulation of 3D Virtual Objects.** Daniel Mendes, Maurício Sousa, Rodrigo Lorena, Alfredo Ferreira, and Joaquim Jorge. ACM Symposium on Virtual Reality Software and Technology (VRST), 2017
- C10 **Creepy Tracker Toolkit for Context-aware Interfaces.** Maurício Sousa, Daniel Mendes, Rafael Kuffner dos Anjos, Daniel Medeiros, Alberto Raposo, Alfredo Ferreira, João Pereira, and Joaquim Jorge. ACM Interactive Surfaces and Spaces (ISS), 2017
- C9 **VRRRRoom: Virtual Reality for Radiologists in the Reading Room.** Maurício Sousa, Daniel Mendes, Soraia Paulo, Nuno Matela, Joaquim Jorge, and Daniel S. Lopes. ACM Conference on Human Factors in Computing Systems (CHI), 2017
- C8 **PRECIOUS! Out-of-reach Selection using Iterative Refinement in VR.** Daniel Mendes, Daniel Medeiros, Eduardo Cordeiro, Maurício Sousa, Alfredo Ferreira, and Joaquim Jorge. IEEE Symposium on 3D User Interfaces (3DUI), 2017
- C7 **Mid-air Modeling with Boolean Operations in VR.** Daniel Mendes, Daniel Medeiros, Maurício Sousa, Ricardo Ferreira, Alberto Raposo, Alfredo Ferreira, and Joaquim Jorge. IEEE Symposium on 3D User Interfaces (3DUI), 2017
- C6 **Effects of Speed and Transitions on Target-based Travel Techniques.** Daniel Medeiros, Eduardo Cordeiro, Daniel Mendes, Maurício Sousa, Alberto Raposo, Alfredo Ferreira and Joaquim Jorge. ACM Symposium on Virtual Reality Software and Technology (VRST), 2016
- C5 **Perceiving Depth: Optical versus Video See-through.** Daniel Medeiros, Maurício Sousa, Daniel Mendes, Alberto Raposo, and Joaquim Jorge. ACM Symposium on Virtual Reality Software and Technology (VRST), 2016
- C4 **SleeveAR: Augmented Reality for Rehabilitation using Realtime Feedback.** Maurício Sousa, João Vieira, Daniel Medeiros, Artur Arsenio, and Joaquim Jorge. ACM Intelligent User Interfaces (IUI), 2016

- C3 **From Tecton to Teknos: Going back to the Classical Roots of Architecture.** Daniel Mateus, Maurício Sousa, Rui de Klerk, Sandra Gama, Joaquim Jorge, and José Duarte. Education and Research in Computer Aided Architectural Design in Europe (eCAADe), 2015
- C7 **Eery Space: Facilitating Virtual Meetings Through Remote Proxemics.** Maurício Sousa, Daniel Mendes, Alfredo Ferreira, João Madeiras Pereira, and Joaquim Jorge. Human-Computer Interaction—INTERACT, 2015
- C1 **Beyond Post-It: Structured Multimedia Annotations for Collaborative VEs.** João Guerreiro, Daniel Pires, Maurício Sousa, Daniel Mendes, Ismael Santos, Alberto Raposo, and Joaquim Jorge. Eurographics Symposium on Virtual Environments (EGVE), 2014

## Journal Articles

- J7 **A Survey on Remote Assistance and Training in AR and VR Environments.** Catarina G. Fidalgo, Yukang Yan, Hyunsung Cho, Maurício Sousa, David Lindlbauer, and Joaquim Jorge. IEEE Transactions on Visualization and Computer Graphics (TVCG), 2023
- J6 **Laparoscopy with Augmented Reality Adaptations.** Ezequiel Zorzal, José Miguel Gomes, Maurício Sousa, Pedro Belchior, Pedro G da Silva, Nuno Figueiredo, Daniel S. Lopes, and Joaquim Jorge. Elsevier Journal of Biomedical Informatics, 2020
- J5 **Anatomy Studio: a Tool for Virtual Dissection Through Augmented 3D Reconstruction Sessions.** Ezequiel Zorzal, Maurício Sousa, Daniel Mendes, Rafael K dos Anjos, Soraia F. Paulo, Pedro Rodrigues, José Mendes, Vincent Delmas, Jean-Francois Uhl, José Mogorrón, Daniel S. Lopes, and Joaquim Jorge. Computers & Graphics, 2019
- J4 **Magic Carpet: Interaction Fidelity for Flying in VR.** Daniel Medeiros, Maurício Sousa, Alberto Raposo, and Joaquim Jorge. IEEE Transactions on Visualization and Computer Graphics (TVCG), 2019  
**Recipient of the Encarnação Award 2020 from Eurographics Portuguese chapter**
- J3 **Design and evaluation of novel out-of-reach selection techniques for VR using iterative refinement.** Daniel Mendes, Daniel Medeiros, Maurício Sousa, Eduardo Cordeiro, Alfredo Ferreira, and Joaquim Jorge. Computers & Graphics, 2017  
**Honourable Mention in the 33rd Spring Conference on Computer Graphics**
- J2 **Hip-directed walking-in-place using a single depth camera.** Luís Bruno, Maurício Sousa, Alfredo Ferreira, João Madeiras Pereira, and Joaquim Jorge. International Journal of Human-Computer Studies (IJHCS), Elsevier, 2017
- J1 **Expeditious Illustration of Layer-Cake Models On and Above a Tactile Surface.** Daniel S. Lopes, Daniel Mendes, Maurício Sousa, and Joaquim Jorge. Computers & Geosciences (in press), 2016

## Book Chapters

- B2 **A Tool for Collaborative Anatomical Dissection.** Ezequiel Zorzal, Maurício Sousa, Daniel Mendes, Soraia Paulo, Pedro Rodrigues, Joaquim Jorge, and Daniel Simões Lopes. Book chapter in Digital Anatomy, Springer, 2021
- B1 **Remote Proxemics.** Maurício Sousa, Daniel Mendes, Daniel Medeiros, Alfredo Ferreira, João Madeiras Pereira, and Joaquim Jorge. Book chapter in Collaboration Meets Interactive Spaces, Springer, 2016

## Other Peer-Reviewed Publications

- 013 **VRChoir: Exploring Remote Choir Rehearsals via Virtual Reality** Tianquan Di, Daniel Medeiros, Maurício Sousa, and Tovi Grossman. IEEE Conference on Virtual Reality and 3D User Interfaces Posters (IEEE VR), 2023

- 012 **Anatomy Studio II: A Cross-Reality Application for Teaching Anatomy.** Joaquim Jorge, Pedro Belchior, Abel Gomes, Maurício Sousa, João Pereira, and Jean-François Uhl. XR for Healthcare and Wellbeing Workshop Workshop (IEEE VR), 2022
- 011 **Design requirements to improve laparoscopy via XR.** Ezequiel R Zorzal, Maurício Sousa, Pedro Belchior, João Madeiras Pereira, Nuno Figueiredo, and Joaquim Jorge. XR for Healthcare and Wellbeing Workshop Workshop (IEEE VR), 2022
- 010 **Constellation: a Multi-User Interface for Remote Drone Tours.** Jiannan Li, Maurício Sousa, Ravin Balakrishnan, and Tovi Grossman. International Conference on Human-Agent Interaction (HAI), 2021
- 09 **Demo hour.** Paden Shorey, Audrey Girouard, Sang Ho Yoon, Yunbo Zhang, Ke Huo, Karthik Ramani, Maurício Sousa, Daniel Mendes, Soraia Paulo, Nuno Matela, Joaquim Jorge, Daniel S. Lopes, Dirk Wenig, Johannes Schöning, Alex Olwal, Mathias Oben, and Rainer Malaka. Demo hour. interactions 24, 6 (October 2017), 8-11.
- 08 **Evaluation of Travel Techniques for Virtual Reality.** Eduardo Cordeiro, Daniel Medeiros, Daniel Mendes, Maurício Sousa, Alberto Raposo, Alfredo Ferreira, and Joaquim Jorge. Portuguese Meeting of Computer Graphics (EPCG), 2016
- 07 **Beyond Eery Space: Applying Gradual Engagement to Remote Proxemics.** Maurício Sousa, Daniel Medeiros, Alberto Raposo, and Joaquim Jorge. Collaboration meets Interactive Surfaces Workshop, ACM Interactive Tabletops and Surfaces(ITS), 2015
- 06 **Augmented Reality for Rehabilitation Using Multimodal Feedback.** João Vieira, Maurício Sousa, Artur Arsénio, and Joaquim Jorge. REHAB2015 Workshop, 2015
- 05 **Enabling Remote Proxemics through Multiple Surfaces.** Daniel Mendes, Maurício Sousa, João Madeiras Pereira, Alfredo Ferreira, and Joaquim Jorge. Collaboration meets Interactive Surfaces Workshop, ACM Interactive Tabletops and Surfaces(ITS), 2014
- 04 **Eery Proxemics: Proximidade à Distância usando Múltiplas Superfícies.** Maurício Sousa, Daniel Mendes, João Madeiras Pereira, Alfredo Ferreira, and Joaquim Jorge. Portuguese Meeting of Computer Graphics (EPCG), 2014
- 03 **ThumbCam: Returning to single touch interactions to explore 3D virtual environments.** Daniel Mendes, Maurício Sousa, Alfredo Ferreira, and Joaquim Jorge. ACM Interactive Tabletops and Surfaces(ITS), 2014
- 02 **Binding a Handheld Device with its Owner.** Maurício Sousa and Joaquim Jorge. Collaboration meets Interactive Surfaces Workshop, ACM Interactive Tabletops and Surfaces (ITS), 2013
- 01 **Collaborative 3D Visualization on Large Screen Displays.** Daniel Mendes, Maurício Sousa, Bruno Araújo, Alfredo Ferreira, Hildegardo Noronha, Pedro Campos, Luciano Soares, Alberto Raposo, and Joaquim Jorge. Powerwall Workshop, SIGCHI Conference on Human Factors in Computing Systems (CHI), 2013

## Theses

- T2 **Perception Manipulation for Seamless Face-to-face Remote Collaboration.** Maurício Sousa. Ph.D. Thesis. Instituto Superior Técnico, University of Lisbon. 2020
- T1 **Remote Proxemics for Collaborative Virtual Environments.** Maurício Sousa. M.Sc. Thesis. Instituto Superior Técnico, University of Lisbon. 2014

## Academic Service

### Senior Program Committee

ACM International Conference on Multimodal Interaction (ICMI)  
**2021, 2022, 2023**

### Technical/Scientific Program Committee

International Conference on Graphics and Interaction (ICGI)  
**2021, 2022, 2023**

IEEE International Symposium on Mixed and Augmented Reality (ISMAR)  
**2021**

ACM International Conference on Multimodal Interaction (ICMI)  
**2020**

### Conference Organizing Committee

IEEE Conference on Virtual Reality and 3D User Interfaces (VR)  
Video Co-chair  
**2023**

ACM International Conference on Interactive Surfaces and Spaces (ISS)  
Web Chair and Online Experience Co-chair  
**2020, 2022**

IEEE Conference on Virtual Reality and 3D User Interfaces (VR)  
Web Chair  
**2021, 2022**

Eurographics  
Fast-forward Chair  
**2016**

### Workshops Organizing Committee

<sup>W1</sup> **Enhancing cross-reality applications and user experiences.** Frank Maurer, Craig Anslow, Joaquim Jorge, and Maurício Sousa. International Conference on Advanced Visual Interfaces (AVI), 2022

### Conference Session Chair

ACM Symposium on User Interface Software and Technology (UIST)  
Session: *Device Augmentation & Communication*  
**2021**

## Peer Reviewer

IEEE VIS  
**2023**

ACM Symposium on User Interface Software and Technology (UIST)  
**2020, 2021, 2022, 2023**

IEEE International Symposium on Mixed and Augmented Reality (ISMAR)  
**2017, 2018, 2019, 2020, 2021, 2022, 2023**

ACM Conference on Designing Interactive Systems (DIS)  
**2016, 2021, 2023**

MDPI Sensors  
**2023**

Springer Virtual Reality (VR)  
**2023**

ACM Conference on Intelligent User Interfaces (IUI)  
**2023**

IEEE Conference on Virtual Reality and 3D User Interfaces (VR)  
**2019, 2023**

ACM Conference on Human Factors in Computing Systems (CHI)  
**2018, 2020, 2021, 2022, 2023**

ACM International Conference on Interactive Surfaces and Spaces (ISS)  
**2015, 2016, 2017, 2018, 2019, 2020, 2022**

International Conference on Graphics and Interaction (ICGI)  
**2021, 2022**

ACM Symposium on Spatial User Interaction (SUI)  
**2017, 2020**

ACM Symposium on Virtual Reality Software and Technology (VRST)  
**2017, 2018, 2020**

ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW)  
**2020**

Elsevier Computers & Graphics  
**2018, 2019, 2020**

ACM International Conference on Tangible, Embedded and Embodied Interaction (TEI)  
**2018, 2020**

ACM ACM International Conference on Multimodal Interaction (ICMI)  
**2018, 2019**

IEEE Consumer Electronics Magazine (CEM)  
**2016**

## Thesis Committee Jury Member

Master's Thesis Committee for Filipe Guedes Barbosa  
Faculdade de Engenharia Universidade do Porto

2022

Thesis: *Shape-a-getti: A haptic device for getting multiple shapes using a single actuator.*

## Teaching And Supervision

### Teaching Assistant

#### Human-Computer Interaction

2017/18

Instituto Superior Técnico, University of Lisbon

*Undergraduate course on the fundamental principles and rules for the design, development, and evaluation of interactive devices, systems, and services.*

### PhD Students

- 1 **Catarina G. Fidalgo**, Instituto Superior Técnico, Carnegie Mellon University  
Co-Advisor with Joaquim Jorge and David Lindlbauer  
Thesis: TBD  
[J7] [C22] 2021 -

### Master Students

- 7 **João Simões**, Instituto Superior Técnico, University of Lisbon. 2021 -  
Co-Advisor with Joaquim Jorge.  
Thesis: TBD
- 6 **Mingxiao (Eve) Li**, University of Toronto. 2021 -  
Co-Advisor with Tovi Grossman.  
Thesis: *EnchantedBrush: Animating in Mixed Reality for Storytelling and Communication*  
[C25]
- 5 **Carlos McGregor Muro**, University of Toronto. 2020 - 2022  
Co-Advisor with Tovi Grossman.  
Thesis: *Knowing when students struggle before verbalizing it using non-intrusive psycho-physiological indicators.*
- 4 **Manuel Lopes**, Instituto Superior Técnico, University of Lisbon. 2020 - 2021  
Co-Advisor with Joaquim Jorge.  
Thesis: *CHASM - Computer-Human Assisted Segmentation of Medical Structures*
- 3 **Catarina G. Fidalgo**, Instituto Superior Técnico, University of Lisbon. 2019 - 2020  
Co-Advisor with Joaquim Jorge.  
Thesis: *MAGIC: Manipulating Avatars and Gestures to Improve Remote Collaboration*
- 2 **Francisco Venda**, Instituto Superior Técnico, University of Lisbon. 2016 - 2017  
Unofficial Co-Advisor with Joaquim Jorge.  
Thesis: *Safe Walking in VR*  
[C14]



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|---|---------------------------|
| <p>1 <b>João Vieira</b>, Instituto Superior Técnico, University of Lisbon.<br/>         Unofficial Co-Advisor with Joaquim Jorge and Artur Arsénio.<br/>         Thesis: <i>SleeveAR: Augmented Reality for Rehabilitation Using Realtime Feedback</i><br/>         [C4] [06]</p> | <p><b>2014 - 2015</b></p> |
|---|---------------------------|

## Undergrad Researchers

- |   |                           |
|---|---------------------------|
| <p>5 <b>Helena Jovic</b>, University of Toronto.<br/>         Co-Advisor with Tovi Grossman.</p>                          | <p><b>2022 - 2023</b></p> |
| <p>4 <b>Sixuan Wu</b>, University of Toronto.<br/>         Co-Advisor with Tovi Grossman.<br/>         [C23]</p>          | <p><b>2022 - 2023</b></p> |
| <p>3 <b>Angela Yang</b>, University of Toronto.<br/>         Co-Advisor with Tovi Grossman.<br/>         [C24]</p>        | <p><b>2022</b></p>        |
| <p>2 <b>Tianquan (Andy) Di</b>, University of Toronto.<br/>         Co-Advisor with Tovi Grossman.<br/>         [013]</p> | <p><b>2021 - 2022</b></p> |
| <p>1 <b>Kevin Huang</b>, University of Toronto.<br/>         Co-Advisor with Tovi Grossman.<br/>         [C20]</p>        | <p><b>2020 - 2021</b></p> |

## Research Assistants

- |   |                           |
|---|---------------------------|
| <p>1 <b>Chu Li</b>, University of Toronto.<br/>         Co-Advisor with Tovi Grossman.<br/>         [C19]</p> | <p><b>2021 - 2022</b></p> |
|---|---------------------------|

## Mentoring (Ph.D. Students)

- |   |                      |
|---|----------------------|
| <p>4 <b>Jiannan Li</b>, University of Toronto.<br/>         [C24] [C23] [C20] [C19] [C18] [010]</p> | <p><b>2020 -</b></p> |
| <p>3 <b>Laura (Di) Chen</b>, University of Toronto.</p>   | <p><b>2020 -</b></p> |
| <p>2 <b>Fengyuan Zhu</b>, University of Toronto.<br/>         [C21]</p>                             | <p><b>2020 -</b></p> |
| <p>1 <b>Karthik Mahadevan</b>, University of Toronto.<br/>         [C24] [C16]</p>                  | <p><b>2020 -</b></p> |

## Funding

- |  |
|--|
| <p>5 <b>Snap Creative Challenge</b><br/>         Project: <i>Audio-Augmented Reminiscence by Capturing and Replaying Memories</i><br/>         Team Member<br/>         2023</p> |
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4 **Champalimaud Center for the Unknown Grant & INESC-ID**

Project: *Laparoscopic Surgery Through Augmented Reality*

A viability study for the inclusion of Augmented Reality in the laparoscopic surgical theater.

Researcher

2018

3 **Portuguese Science and Technology Foundation Grant**

Project: *Interactive Tablets for Collaborative Scenarios Related to 3D Medical Image Exploration*

Interactive experiences for medical collaborative workspaces 3D images.

Researcher

2017

2 **Portuguese Science and Technology Foundation Grant**

Project: *Digital Mockup: Touching the 3rd Dimension*

Interaction techniques for architectural 3D modeling design and review in mixed reality

Researcher

2016

1 **Portuguese Science and Technology Foundation Grant**

Project: *CEDAR - Collaborative Engineering Design And Review*

Design and evaluation of novel collaborative spacial interaction techniques for the Oil & Gas Industry

Researcher

2015

## Awards and Recognition

7 Special Recognition for Outstanding Reviews

*UIST 2023 Papers*

8 Recognition of Service Award IEEE VR 2023.

*In appreciation for contributions to IEEE VR Conference as Videos Co-Chair.*

7 Special Recognition for Outstanding Reviews

*UIST 2022 Papers*

6 Best Paper Honorable Mention Award ACM CHI 2022

[C20] *immersivePOV: Filming How-To Videos with a Head-Mounted 360° Action Camera.*

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*In appreciation for contributions to IEEE VR Conference as Web Chair.*

4 Best Paper Honorable Mention Award ACM CHI 2021.

[C16] *"Grip-that-there": An Investigation of Explicit and Implicit Task Allocation Techniques for Human-Robot Collaboration.*

3 Paper featured in the 'Best of CHI 2019' event by IndiaHCI.

[C12] *WARPING DEIXIS: Distorting Gestures to Enhance Collaboration.*

2 Paper recipient of the Encarnação Award 2020 from Eurographics Portuguese chapter.

[J4] *Magic Carpet: Interaction Fidelity for Flying in VR.*

1 Honorable Mention Award in the 33rd Spring Conference on Computer Graphics 2017.

[J3] *Design and evaluation of novel out-of-reach selection techniques for VR using iterative refinement.*

## Selected Media

- 1 [Interactive 'Stargazer' camera robot assists with how-to video creation.](#)

Krystle Hewitt, Department of Computer Science, University of Toronto. May 2023

[C24]

## Contact References

References are available upon request.