



# AZIZ NIYAZOV

## EDUCATION:

- Ph.D. Pervasive Freeform UIs  
IRIT, Paul Sabatier University,  
France  
2019 - 2023 (present)
- M.Sc. Human-Computer Interaction  
Bauhaus University Weimar,  
Germany  
2017-2019
- B.Sc. Computer Engineering  
Politecnico di Torino, Italy  
2011-2016

## LANGUAGES:

- French - B1
- German - B1
- English - C1
- Russian - Native
- Uzbek - Native

## SKILLS:

- Programming (C, C#, C++, Python),  
Git, Prototyping, User Evaluation,  
Arduino, Raspberry Pi, Sketches/  
Illustrations
- Unity 3D, Visual Studio, QtCreator,  
Adobe Creative Cloud (Lightroom,  
Premiere Pro, Illustrator,  
Photoshop)

## INTERESTS:

- Photography** (including photo  
contests), Videography, Latino and  
Street **Dancing** (including dancing  
contests), Guitar playing

## ABOUT ME:

✉ aziz.niyazov@irit.fr

I am a creative and motivated PhD student with a strong interest in Augmented Reality technology. With international experience and a background in Human-Computer Interaction, I am passionate about exploring innovative applications of AR to solve real-world problems.

## PUBLICATIONS

- Hamburg, Germany  
2023  
**User-driven Constraints for Layout Optimisation in Augmented Reality**  
CHI Conference on Human Factors in Computing Systems  
Aziz Niyazov, Barrett Ens, Kadek Ananta Satriadi, Nicolas Mellado, Loïc Barthe, Tim Dwyer, Marcos Serrano
- Łódź, Poland  
2021  
**Dynamic Decals: Pervasive Freeform Interfaces Using Constrained Deformable Graphical Elements**  
ISS Conference on Interactive Surfaces and Spaces  
Aziz Niyazov, Nicolas Mellado, Loïc Barthe, Marcos Serrano

## RESEARCH PRESENTATION

- Hamburg, Germany  
2023  
CHI 2023  
User-driven Constraints for Layout Optimisation in Augmented Reality
- Hamburg, Germany  
2023  
CHI 2023 Workshop on Future of Computational Approaches for Understanding & Adapting User Interfaces  
Bringing Interactivity into Spatial Content Layout Optimisation
- Online  
2022  
CHI 2022 Workshop on Computational User Interfaces. (New Orleans, LA, USA)  
Challenges and Opportunities of Content Optimisation for Freeform User Interfaces
- Łódź, Poland  
2021  
ISS 2021  
Dynamic Decals: Pervasive Freeform Interfaces Using Constrained Deformable Graphical Elements
- Online  
2021  
Journée Interaction Humain-Machine, Informatique Graphique et Réalité Virtuelle: Objets Tangibles
- Online  
2021  
Doctoral Consortium in International Francophone Conference of Human-Computer Interaction (Metz, France)
- Weimar, Germany  
2018  
"Care Robot" exhibition in Universal Design Conference  
InfoSight - a concept that helps people in healthcare.

## INTERNSHIPS

- Melbourne, Australia  
2022  
User-driven Constraints for Immersive Layouts Optimisation  
Data Visualisation and Immersive Analytics Lab, Monash University  
I made a research collaboration to develop a AR prototype using Hololens 2 and Unity and conducted a user study for gesture elicitation.

Toulouse, France 2019	<ul style="list-style-type: none"> <li>Human-Computer Interaction and Computer Graphics IRIT, Paul Sabatier University. I developed a prototype and conducted users study for my Master Thesis on “Design and evaluation of non-rectangular user interfaces”</li> </ul>
Gifu, Japan 2015	<ul style="list-style-type: none"> <li>Robotics Program NIT Gifu College I developed autonomous robots using PIC microcontrollers, sensors and actuators</li> </ul>
Tashkent, Uzbekistan 2013	<ul style="list-style-type: none"> <li>Web Developer Gühring Tool Management Company I developed web-site and customer database</li> </ul>

## WORKING EXPERIENCE

Weimar, Germany 2018	<ul style="list-style-type: none"> <li>DIY in HCI - Crafting Electronic Textiles (part time/ HiWi) Digital Bauhaus Lab I assisted in programming of Adafruit Feather devices for dancing costumes to remotely control RGB lights and vibration motors via body movement using accelerometer, gyroscope and OSC (Open Sound Control)</li> </ul>
Tashkent, Uzbekistan 2016 - 2017	<ul style="list-style-type: none"> <li>Engineer at Mechatronic Centre Turin Polytechnic University in Tashkent I developed extra-curricular study program for Raspberry Pi training course. I also delivered a prototype of remote controlled car using network connection with the help of Raspberry Pi, Arduino, sensors and actuators.</li> </ul>
Tashkent, Uzbekistan 2015	<ul style="list-style-type: none"> <li>Programmer (part time) CTRL + I assisted the software development projects based on Raspberry Pi and Arduino</li> </ul>
Tashkent, Uzbekistan 2011-2013	<ul style="list-style-type: none"> <li>IT specialist (part time) Turin Polytechnic University in Tashkent I was responsible for maintenance of university computers, office equipment and computer network. I also developed and updated university website and Info Desks.</li> </ul>

## TRAININGS

Toulouse, France 2021	<ul style="list-style-type: none"> <li>Universeh Startech I gained fundamentals of entrepreneurship and delivered a final group project</li> </ul>
Online 2021	<ul style="list-style-type: none"> <li>Introduction to Personal Branding I took an online course from Coursera provided by University of Virginia</li> </ul>
Online 2020	<ul style="list-style-type: none"> <li>Presentation Skills: Speechwriting and Storytelling I accomplished an online course from Coursera provided by National Tomsk State University</li> </ul>
Tashkent, Uzbekistan 2018	<ul style="list-style-type: none"> <li>JavaScript Course by Korean IT volunteers (KIV) I learned JavaScript programming using NodeJS</li> </ul>
Tashkent, Uzbekistan 2016	<ul style="list-style-type: none"> <li>Java and Android ICT Course by Korean IT volunteers (KIV) I learned to develop GUIs for android using XML and Java</li> </ul>
Tashkent, Uzbekistan 2013	<ul style="list-style-type: none"> <li>Vuforia - Augmented Reality Training for mobile developers supported by Qualcomm</li> </ul>
Tashkent, Uzbekistan 2012	<ul style="list-style-type: none"> <li>C Programing Course by Korean IT volunteers (KIV) I boosted my C programming skills</li> </ul>