Quijano Chavez **Carlos Victor**

Researcher and Developer

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Born on January 23, 1994 (32 years old) in Moquegua, Peru



Computer Science researcher and developer specializing in HCI, virtual/augmented reality, and software development. I am currently a PhD student at the University of Stuttgart under the supervision of Dieter Schmalstieg and Michael Sedlmair, focusing on Situated and Immersive Analytics. Previously, I earned my master's degree at the Federal University of Rio Grande do Sul (UFRGS), where my dissertation focused on applying embodied display and interaction techniques for data visualization and visual analytics in immersive environments.

Formation

2023 - currently	Phd student at the University of Stuttgart - Germany (Research area - Situated/Immersive Analytics)
2021	Master's degree in Federal University Rio Grande do Sul - Brazil (Research area - Immersive Analytics)
2016	Graduated from the National University of San Agustin (Computer Science)

Publications

User-Centric and World-Centric Augmented Reality Visualization to Guide Wrist Rehabilitation Exercises — 2026

Poster Paper
Fairouz Grioui, Deep Gawande Gawande, Carlos Quijano-Chavez and Tanja Blascheck
2026 ACM Symposium on Spatial User Interaction (ACM SUI)
Rehabilitation | ROM exercises | Smartwatch | Augmented Reality

Beyond Audio : Visual Cues to Complement Football Commentary for Fans with Visual Impairments — 2026

Poster Paper Teaser
Phillip Koch, Markus Wieland, Carlos Quijano-Chavez and Michael Sedlmair
2026 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (IEEE VRW)
Visual Impairment | Visual Cues | Virtual Reality | Augmented Reality | Sport Events

Situated Brushing and Linking in Virtual and Augmented Reality — 2026

Paper Presentation
Carlos Quijano-Chavez, Benjamin Lee, Nina Doerr, Wolfgang Büschel, Michael Sedlmair and Dieter Schmalstieg
2026 IEEE Transactions on Visualization and Computer Graphics (IEEE VR)
Brushing and Linking | Situated Visualization | Visual Highlighting

MRLingo : A Mixed Reality Approach for Situated Vocabulary Learning — 2025

Poster Paper Teaser
Ziad Elshereif, Busra Balaban, Shehabeldin Solyman, Michael Sedlmair and Carlos Quijano-Chavez
2025 IEEE International Symposium on Mixed and Augmented Reality Adjunct (ISMAR-Adjunct)
Mixed Reality | Vocabulary Learning | Object Recognition | Text-to-speech | Vocabulary Acquisition | User Study

Brushing and Linking for Situated Analytics — 2024

Workshop Paper Teaser
Carlos Quijano-Chavez, Nina Doerr, Benjamin Lee, Dieter Schmalstieg and Michael Sedlmair
WSR'24, 2024 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)
Brushing and Linking | Data Visualization | Hybrid User Interfaces | Situated Analytics

Designing Situated Dashboards : Challenges and Opportunities — 2023

Workshop Paper
Anika Sayara, Benjamin Lee, Carlos Quijano-Chavez and Michael Sedlmair
ISA'23, 2023 IEEE International Symposium on Mixed and Augmented Reality Adjunct
Human-Computer Interaction | Dashboards | Interviews | Situated Visualization | Augmented Reality

Comparing Scatterplot Variants for Temporal Trends Visualization in Immersive Virtual Environments — 2023

Paper github.com/cquijanoch/VRTrendVis Teaser Presentation
Carlos Quijano-Chavez, Luciana Nedel and Carla M. D. S. Freitas
2023 IEEE Conference Virtual Reality and 3D User Interfaces (VR)
Evaluation | Trends Visualization | 3D Scatterplots | Virtual Reality | Immersive Analytics

An Immersive Approach Based on Two Levels of Interaction for Exploring Multiple Coordinated 3D Views 2021

Paper Poster github.com/cquijanoch/IMMultipleView Demo Video

Carlos Quijano-Chavez, Luciana Nedel and Carla M. D. S. Freitas
Human-Computer Interaction – INTERACT 2021. Springer International Publishing.

Multiple Coordinated Views | Virtual Reality | Immersive Analytics

Academic Services

Peer Review

HCI Venues
IEEE : VR 2020-2025-2026-2027, VIS 2025
ACM : MUC 2024-2026, VRST 2025, SUI 2026, ISS 2026

Teaching

Courses and Seminars
Media Informatics Programming, Virtual and Augmented Reality, Multimodal Interaction in Mixed Reality, Image-Based and Neural Rendering, Practical Course Game Programming

Talks

Multiple views in Immersive Analytics
I Encuentro de Posgraduandos de Ciencia de la Computación - UNAM Moquegua, 2019

Brushing and Linking for Situated Analytics
Un año de Webinars de HCI en Iberoamérica - HCI Collab, 2024

Professional Experience

October 2022 – April 2023 | **Application Developer, IBM, Porto Alegre-Brazil**
- Responsible for the development of applications that make up the data platforms used in the solutions and products of Neogrid.
- Back-end developer focused on providing solutions to requests with great concurrence.
- Reviewer and contributor of ideas for solutions architecture.

NET | C# | Azure | Java | SQL Server

September 2020 – October 2022 | **Software Developer, Neogrid, Porto Alegre-Brazil**
- Responsible for the development of applications that make up the data platforms used in the solutions and products of Neogrid.
- Back-end developer focused on providing solutions to requests with great concurrence.
- Reviewer and contributor of ideas for solutions architecture.

NET | C# | Azure | Java | SQL Server

November 2018 – February 2020 | **Software Developer, UFRGS - Petrobras, Porto Alegre-Brazil**
- Integration with Itagen simulation system.
- Development of new Interfaces and analytical reports.
- Migration to a new database schema.

C++ | Qt | CMake | SQLite

November 2017 – March 2018 | **Software Web Developer, WMPERU, Arequipa-Peru**
- Development of Front-end architecture.
- Development of Claims module.

VsCode | Angular | Symfony | MySql

May 2017 – October 2017 | **Java Software Developer, UNSA, Arequipa-Peru**
- Development of BPM for Budget module.
- Integration with SIAF with JMS.
- Knowledge of Public Systems oriented to the government areas.

JBoss | Eclipse | Maven | Angular | EJB | JPA | PostgreSql | FoxPro

September 2016 – April 2017

Java Software Developer, Global System and Consulting, Arequipa-Peru

- Development of Parent, Student and Staff Assistance modules.
- Development of analytical reports.

GlassFish | Netbeans | Maven | AngularJs | EJB | JPA | PostgreSql

June 2016 – August 2016

Java Software Developer, META Innova, Arequipa-Peru

- Maintenance of tax management system.
- Migration of region municipality data.
- Development of analytical reports.

JBoss | Eclipse | Maven | JSF | Hibernate | SQL Server

Skills

Programming	**.NET**, **C#**, **Javascript**, **C++**, **Java** (**JEE**, **JSE**), PHP, Typescript, R
Frameworks	**Meta Interaction SDK, MRTK, Entity Framework, Angular**, Spring, Spring Boot, Ionic 3, JSF, JBoss RichFaces, Bootstrap
Databases	DB2, Oracle Database, Microsoft SQL Server, MySQL, PostgreSQL, SQLite
Development Tools	**Visual Studio**, IntelliJ Idea, **Eclipse**, **Unity**, **Blender**, **Rhino Compute**, Visual Studio Code, Maven, Ant, SVN, git
Hardware	**Meta Quest**, **HoloLens**
Operating systems	Windows, Linux Redhat, Linux Centos
Other	Azure, Architecture SOA, Technologies BPM, 3D Game platforms, Methodology RUP SCRUM

Languages

Spanish	●●●●●
English	●●●○○
Portuguese	●●●●○
German	●○○○○

Interest Areas

- Immersive/Situated Analytics
- Virtual/Augmented Reality
- Human-Computer Interaction
- Data Visualization