



CARLA SCHUELER

Technical Specialist

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PRACTICE AREAS

- Patents

LANGUAGES

- Portuguese
- English

BIOGRAPHY

Carla Schueler is a telecommunications engineer with a strong academic and research background in signal and data processing, computer vision, and software development. She has research experience in data processing and multimedia technologies, including image and video compression and light-field coding.

Over the past years, Ms. Schueler has worked as a research software engineer at Microsoft, contributing primarily to the implementation of artificial intelligence services and products used worldwide. Her earlier research includes projects with Samsung Research Brasil and the Antennas and Propagation Laboratory (LAProp) at the Fluminense Federal University (UFF), covering the evaluation of light-field compression techniques, wireless communications, signal acquisition, and statistical signal processing. Her research background also encompasses speech processing, speaker verification, image and video processing, and computer vision, with publications and a patent related to four-dimensional light-field coding. Ms. Schueler is proficient in Python, C#, and MATLAB, and fluent in Portuguese and English.

PROFESSIONAL HIGHLIGHTS

- Academic Excellence Award (Láurea Acadêmica) – Fluminense Federal University (UFF) – recognition of outstanding academic performance and excellence throughout the undergraduate program in Telecommunications Engineering (2018);
- SBMAC Beatriz Neves Undergraduate Research Award – Brazilian Society of Applied and Computational Mathematics (SBMAC) – recognition of the technical quality of the research work entitled “Development of a Speaker Verification System Using Hidden Markov Models, Combining MFCC with Parameters Extracted from the Glottal Signal” (2017);
- Walder Moreira Award, 1st Place – Department of Telecommunications Engineering of the Fluminense Federal University (UFF) – recognition of outstanding academic performance among students in the program (2017).

EDUCATION

- Master's Degree (M.Sc.), Electrical Engineering, Federal University of Rio de Janeiro –UFRJ (2023);
- Bachelor's Degree (B.Sc.), Telecommunications Engineering, Fluminense Federal University – UFF (2018).

PUBLICATIONS

- Method for Four-Dimensional Intra-Prediction Coding and Decoding of Light Field Data. U.S. Patent No. 11,647,225, May 9, 2023. Patent application published as US 2022/0377374 A1; Brazilian application BR 10 2021 009291-2;
- [The JPEG Pleno Light Field Coding Standard 4D-Transform Mode: How to Design an Efficient 4D-Native Codec](#). IEEE Access, 2020;
- [Outdoor-To-Indoor Power Prediction for 768 MHZ Wireless Mobile Transmission Using Multilayer Perceptron](#). 2018 International Joint Conference on Neural Networks (IJCNN), 2018;
- [Verificação de locutor utilizando parâmetros extraídos do sinal glotal em conjunto com a técnica MFCC](#). Proceeding Series of the Brazilian Society of Computational and Applied Mathematics, 2018;
- [Utilização da técnica MFCC em conjunto com os parâmetros extraídos do sinal glotal para melhorar o desempenho de um sistema de verificação de locutor](#). XXXV Simpósio Brasileiro de Telecomunicações e Processamento de Sinais (SBrT), 2017.