Pedro Company Beck

✉ pedro.beck@inf.ufrgs.br   ⬤ GitHub   ⬤ Lattes   ⬛ LinkedIn

EDUCATION

Master of Science (M.Sc.) in Computer Science   **Sep. 2024 – Jul. 2026**
Federal University of Rio Grande do Sul (UFRGS)   *Porto Alegre, Brazil*

- Awarded a fellowship from CAPES for ranking 1st in the selection process
- Current GPA: 4.00/4.00

Bachelor of Science (B.Sc.) in Computer Science, *summa cum laude*   **Mar. 2020 – Aug. 2024**
Federal University of Rio Grande do Sul (UFRGS)   *Porto Alegre, Brazil*

- Entered in 1st place at the 2020 admission exams for Computer Science
- Graduated *summa cum laude*, final GPA: 3.80/4.00

Doctor of Medicine (M.D.)   **Mar. 2025 – Dec. 2030**
Federal University of Health Sciences of Porto Alegre (UFCSPA)   *Porto Alegre, Brazil*

RESEARCH EXPERIENCE

Graduate Student Researcher (M.Sc. Student)   **Sep. 2024 – present**
Computer Graphics, Image Processing and Interaction Group – Institute of Informatics – UFRGS   *Porto Alegre, Brazil*

- Advisor: Prof. Manuel M. Oliveira
- Fields: Digital Signal Processing, Image Processing
- Supported by a fellowship from CAPES

B.Sc. in Computer Science Thesis (TCC)   **Jan. 2024 – Aug. 2024**
Computer Graphics, Image Processing and Interaction Group – Institute of Informatics – UFRGS   *Porto Alegre, Brazil*

- Thesis Title: Aliasing Removal Using Multiple Sub-Nyquist Samplings
- Advisor: Prof. Manuel M. Oliveira
- Fields: Digital Signal Processing, Image Processing

Undergraduate Student Researcher   **Oct. 2022 – Aug. 2024**
Parallel and Distributed Processing Group (GPPD) – Institute of Informatics – UFRGS   *Porto Alegre, Brazil*

- Researcher in a project in partnership with Petrobras
- Advisor: Prof. Eduardo S. L. Gastal
- Fields: Computer Graphics, Computational Geophysics, High-Performance Computing
- Supported by a fellowship from Petrobras

TEACHING EXPERIENCE

Teaching Assistant - Fundamentals of Image Processing   **Aug. 2025 – present**
Institute of Informatics – UFRGS   *Porto Alegre, Brazil*

- Advisor: Prof. Manuel M. Oliveira

Teaching Assistant - Calculus II   **Aug. 2021 – Nov. 2021**
Institute of Mathematics and Statistics – UFRGS   *Porto Alegre, Brazil*

- Advisor: Prof. Virginia M. Rodrigues

Teaching Assistant - Calculus I   **Jan. 2021 – May. 2021**
Institute of Mathematics and Statistics – UFRGS   *Porto Alegre, Brazil*

- Advisor: Prof. Flávia M. Branco

PROFESSIONAL EXPERIENCE

Full Stack Developer   **Nov. 2022 – Mar. 2024**
Cognitiva Brasil   *Porto Alegre, Brazil*

- Technologies Used: Java (Spring Framework), AngularJS, ReactJS, PostgreSQL

Technical Skills

Natural Languages: English (Proficient), Portuguese (Fluent), Spanish (Intermediate), Japanese (Basic), Korean (Basic)

Programming Languages: C, **C++**, **Java**, Python, JavaScript, SQL, HTML, CSS, LaTeX, MATLAB

Libraries & Frameworks: OpenCV, ImGUI, Spring, ReactJS, AngularJS, NodeJS, NumPy, SciPy, pandas, Bootstrap

Tools & Others: Git, GNU/Linux, PostgreSQL, MySQL, Emacs, Microsoft Office

Honors and Awards

Bachelor's Degree *summa cum laude* (Láurea Acadêmica)   **Sep. 2024**
Institute of Informatics – UFRGS

First Place in Admission Exams for Computer Science   **Jan. 2020**
Institute of Informatics – UFRGS

CAPES University Talent Award 2025   **Sep. 2025**
CAPES

Language Certifications

Certificate in Advanced English (CAE) – Grade A – CEFR Level C2
University of Cambridge

Japanese Language Proficiency Test (JLPT) N5 – 日本語能力試験 N5
国際交流基金 – *Japan Foundation*

Test of Proficiency in Korean (TOPIK I) – 한국어능력시험 I
국립국제교육원 – *National Institute for International Education (NIIED)*

Open Source Contributions

CalculoNumerico | github.com/reamat/CalculoNumerico | ★ 130+

- Open Source textbook for Numerical Calculus made by the Institute of Mathematics and Statistics - UFRGS

Other Activities

IEEE UFRGS Student Branch   **Aug. 2024 – present**
Treasurer   *Porto Alegre, Brazil*

UFCSPA Ophthalmology League   **Apr. 2025 – present**
Member   *Porto Alegre, Brazil*

UFCSPA Human Anatomy League   **Jun. 2025 – present**
Member   *Porto Alegre, Brazil*

Events Attended

- Anime Buzz Caxias (2024) – Caxias do Sul, Brazil

- XXIV ERAD/RS (2024) – Florianópolis, Brazil

- 30th AnimeXtreme (2022) – Porto Alegre, Brazil

Other Certifications and Awards

- Honourable Mention in Santa Catarina Chemistry Olympiad – OCQ 2017