

Felipe Nonato Cardoso Sobral Junior



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PhD Student
University of Tsukuba

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Education

PhD Student (expected March 2027) – *PhD Program in Computer Science - University of Tsukuba (Japan)*

Laboratory of evolutionary computation

MEXT Scholarship: Human Centered A.I. Society

Keywords: Computational creativity, procedural content generation, narrative generation, graph theory, graph grammars, game A.I.

Msc (Mar 2024) – *Masters Program in Computer Science – University of Tsukuba (Japan)*

Laboratory of Evolutionary Computation

MEXT Scholarship: Human Centered A.I. Society

Thesis title: Generating Stories from A.I.Wolf using graph analysis of game logs.

Skills: Python, Linux, NetworkX, Vscodex, GitHub, Knowledge Graphs, Narrative Generation, Scientific Writing, Data Analysis, Research Presentation

Msc (Oct 2021) – *Master Program in Electrical Engineering – Federal University of Espírito Santo (Brazil)*

Laboratory of power electronics and electrical drive

CAPES Scholarship

Thesis title: Optimization of the Electrical Power System of the State of Espírito Santo considering the weighted sum of performance indexes and the expansion of power generation through intermittent renewable energy sources.

Skills: Python, Pandas, Matlab, Excel, Optimization, Scientific Writing, Data Analysis, Research Presentation

BA (2018) – *Undergraduate Program in Electrical Engineering - Federal University of Espírito Santo (Brazil)*

Professional Experience

Internship (Jul 2017 – Apr 2018) – *BeLight Energia*

- Conducted extensive research for startup company projects. (Clean Development Mechanism)
- Prepared project presentations and reports to assist senior staff. (Electrical design/Solar powerplants)
- Facilitated successful completion of projects from concept to launch. (Electrical design/Solar powerplants)
- *Software: Excel, Autocad*

English Instructor (Feb 2011 – Feb 2012) – *CCAA*

- Established positive classroom management boundaries to create safe, known environment for behaviour among students.
- Graded students work based on completion, timeliness and accuracy and kept detailed records of grades.
- Successfully improved English-speaking students' English grammar and vocabulary levels through written and interactive activities.

Other Activities

AEBUT – Brazilian Student Association of University of Tsukuba (Aug 2022 - Current) – *University of Tsukuba (Japan)*

- Organizing events, participating in volunteer activities.

Student Ambassador (Aug 2023 – Mar 2024) – *University of Tsukuba (Japan)*

- Guided embassy official during University of Tsukuba 50th anniversary ceremony.
- Guided Brazilian staff from state of Paraná, Araucária Foundation and Western Paraná University during visit to University of Tsukuba.

Student Volunteer (July 2023) – *Alife 2023 Hokkaido, Japan*

- Supporting staff during event reception, day-to-day operation.

Data Science Teacher Assistant (Apr 2023 – July 2023) – *University of Tsukuba (Japan)*

- Support the teacher in class, help students with excel and statistics.

CollaboTICS 2022 (Dec 2022) - *Committee member, University of Tsukuba (Japan)*

- Supporting staff during online event operation.

Electrical Engineering Education and Tutorial Program (Jul 2014 – Jul 2016) – *Member, Federal University of Espírito Santo (Brazil)*

- Engaged in research, teaching and extension activities with a group of students supervised by a professor.
- Project leader of English conversation and grammar review group for undergraduate students.

Publications

Sobral Júnior, Felipe N. C; Rueda Medina, Augusto C.; Performance indexes optimization applied to the Electrical System of Espírito Santo. In: XXIII Congresso Brasileiro de Automática (CBA) 2020, Santa Maria (Virtual), RS, Brasil. Available in: <https://doi.org/10.48011/asba.v2i1.1127>

Soares, R. B. ; Cunha, C. C. M. ; Menegaz, P. J. M. ; Miranda, C. M. ; Reis, I. A. ; Sobral Junior, F. N. C. ; Astore, L. M. ; Lima, B. S. ; Barroso, B. S. ; Caldeira, T. ; Sandwich Graduation as an internalization strategy: UFES's Electrical Engineering students experience. In: XLIV CONGRESSO BRASILEIRO DE EDUCAÇÃO EM ENGENHARIA, 2016, Natal. Anais Cobenge 2016, 2016.

Skills / Languages

Portuguese - *Native Proficiency*

English - *Professional Proficiency (101 TOEFL iBT)*

Japanese - *Basic Proficiency*

Programming: *Python, LaTeX*

Tools: *Linux, Git, Matlab, Excel*