




# FABIO PIGNELLI

 [fpignelli.github.io](https://github.com/fpignelli)

 [fabio.pignelli@gmail.com](mailto:fabio.pignelli@gmail.com)

 [ORCID/0009-0002-3494-8775](https://orcid.org/0009-0002-3494-8775)




 [/fpignelli](https://www.linkedin.com/in/fpignelli)

 [/fpignelli](https://twitter.com/fpignelli)












## Professional Experience

- Jan 2026 – . . . . .  **Research Visitor** - University of Padua (UNIPD)
- Dec 2024 – Oct 2025  **Lecturer** - State University of Maringá (UEM)
- May 2023 – Jan 2026  **Pedagogical Coordinator | Lecturer** - Cidade Verde University (UniCV)  
Head of IT courses
- Jul 2021 – May 2023  **Software Developer** - Stationsoft Consultancy and System Development  
Client was a key player in the agribusiness sector in Brazil





## Education

- Mar 2025 – . . . . .  **D.Sc. in Computer Science** – State University of Maringá (UEM)  
Stay: University of Padua (UNIPD)  
Advisors: Yandre M.G. Costa, and Lucas O. Teixeira
- Mar 2018 – Jun 2021  **M.Sc. in Computer Science** – State University of Maringá (UEM)  
Title: *Cognitive Inspired Model as Data Augmentation for Writer Identification using the Document Filter Protocol*  
Grant: *Coordination for the Improvement of Higher Education Personnel (CAPES)*  
Advisors: Diego Bertolini, and Yandre M.G. Costa
- Feb 2014 – Dec 2017  **B.Sc. in Computer Science** – Ingá University (UNINGÁ)  
Title: *Breast Cancer Detection using Convolutional Neural Networks*  
Advisors: Claudia Heidemann, and Lucas O. Teixeira



## Publications

-  **Pignelli, F., Costa, Y. M. G., & Teixeira, L. O. (2025). Addressing Class Imbalance in Rice Disease Diagnosis with Contrastive Dissimilarity.** *Under review.*
-  **Pignelli, F., Teixeira, L. O., Bertolini, D., Nanni, L., Cavalcanti, G. D. C., & Costa, Y. M. G. (2025). Contrastive Dissimilarity for Writer Identification: a proof of concept.** *32nd International Conference on Systems, Signals and Image Processing (IWSSIP).*  
 <https://doi.org/10.1109/IWSSIP66997.2025.11151867>
-  **Pereira, L. F. M., Pignelli, F., et al. (2021). Japanese Kana and Brazilian Portuguese Manuscript Database.** *25th Iberoamerican Congress on Pattern Recognition (CIARP).*  
 [https://doi.org/10.1007/978-3-030-93420-0\\_17](https://doi.org/10.1007/978-3-030-93420-0_17)
-  **Pignelli, F., Bertolini, D., Britto, A. S., Costa, Y. M., & Oliveira, L. (2021). Document Filter for Writer Identification.** *28th International Conference on Systems, Signals and Image Processing (IWSSIP).*  
 [https://doi.org/10.1007/978-3-030-96878-6\\_16](https://doi.org/10.1007/978-3-030-96878-6_16)
-  **Pignelli, F., Costa, Y. M., Oliveira, L. S., & Bertolini, D. (2021). Data Augmentation for Writer Identification Using a Cognitive Inspired Model.** *16th International Conference on Document Analysis and Recognition (ICDAR).*  [https://doi.org/10.1007/978-3-030-86337-1\\_17](https://doi.org/10.1007/978-3-030-86337-1_17)
-  **Santana, I. A. P., Pignelli, F., et al. (2020). Music4All: A New Music Database and Its Applications.** *27th International Conference on Systems, Signals and Image Processing (IWSSIP).*  
 <https://doi.org/10.1109/IWSSIP48289.2020.9145170>



## Prizes and Awards

- 2025 | 26  **D.Sc. Student Mobility Grant (72,680.53R\$)**, Araucária Foundation, to visit Università degli Studi di Padova (UNIPD)
- 2018 | 19 | 20  **M.Sc. Student (42,000R\$ - 1,500R\$/month)**, CAPES
- 2017  **Hackathon-winning Team**, NASA Space Apps Challenge
- 2015 | 16 | 17  **Outstanding Student Award**, Ingá University






## Teaching

- UEM<sup>1</sup>  Applied Informatics, Human-Computer Interaction, Object-Oriented Programming, Programming Fundamentals
- UniCV<sup>2</sup>  Computer Architecture, Graph Theory, Theory of Computation






## Students

- 2024 – 25  **João Vitor Miguel** – Cidade Verde University (UniCV)  
Type: B.Sc. Student  
Title: Implementing Accessible Features in a 3D Graphic Engine
-  **Isadora Gobira Benner**, with Prof. Erick Gagliardi – Cidade Verde University (UniCV)  
Type: B.Sc. Student  
Title: Technological Innovations and Their Impacts: An Analysis of Current Trends

## Tools

- Programming Languages  Python, JavaScript, C#, Matlab
- Operating Systems  MacOS and Linux (Ubuntu | Mint) and Windows 10 | 11
- Databases  SQLite, MySQL, Progress OpenEdge
- ML Techniques  Statistical Models (SVM, K-NN, K-Means, Naïve Bayes), Deep Learning (CNN, MLP)
- ML libraries  Scikit-learn, Keras, PyTorch, TensorFlow, OpenCV

## Languages

- Portuguese  Native
- English  Professional proficiency
- Spanish  Strong reading and comprehension
- Italian  Basic
- French  Basic

<sup>1</sup>State University of Maringá

<sup>2</sup>Cidade Verde University