

CURRICULUM VITAE

Maurício Pamplona Segundo

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Present Address

Instituto de Matemática, sala 214
Av. Adhemar de Barros, S/N
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EDUCATION

Doctor of Science, Computer Science December 2013
Institution: Federal University of Paraná, Curitiba/PR, Brazil
Thesis: Real-time 3D Face Recognition using Low-cost Devices
Fellowship: CAPES - Coordination for the Improvement of Higher Education Personnel
CNPq - National Council of Technological and Scientific Development

Master of Science, Informatics March 2010
Institution: Federal University of Paraná, Curitiba/PR, Brazil
Dissertation: Face Segmentation and Facial Features Detection in Range Images
Fellowship: CAPES - Coordination for the Improvement of Higher Education Personnel

Bachelor of Science, Computer Science March 2008
Institution: Federal University of Paraná, Curitiba/PR, Brazil
Monograph: Face Segmentation in Range Images
Fellowship: CNPq - National Counsel of Technological and Scientific Development

EXPERIENCE

Federal University of Bahia / Department of Computer Science

Professor March 2014 - present

- Teaching: Algorithms, Computer Vision
- Research & Development: Biometric recognition
- Academic Extension: Coach in Programming Contests

University of South Florida / Computer Science & Engineering

Postdoctoral scholar April 2017 - March 2018

- Research & Development: Ear recognition in-the-wild, satellite image understanding.

Visiting research scholar August 2012 - August 2013

- Research & Development: Continuous 3D face authentication, 3D surface strain estimation.

United Nations Educational, Scientific and Cultural Organization / Congonhas Museum

Research fellow July 2012 - December 2012

- Research & Development: Digitization and 3D reconstruction of cultural heritage objects.

Federal University of Paraná / Department of Informatics

Research assistant June 2005 - December 2013

- Research & Development: face and fingerprint recognition, 3D reconstruction, accessibility tools.

PUBLICATIONS

- Journal:** E. Hansley, M. Pamplona Segundo and S. Sarkar, "Employing fusion of learned and handcrafted features for unconstrained ear recognition", *IET Biometrics*, 2018.
- Conference:** M. M. B. Santos and M. Pamplona Segundo, "Continuous Biometric Authentication using Possibilistic C-Means", *IEEE International Conference on Fuzzy Systems*, 2018.
- Journal:** L. Souza, L. Oliveira, M. Pamplona Segundo and J. Papa, "How far did we get in face spoofing detection?", *Engineering Applications of Artificial Intelligence*, 2018.
- Conference:** G. Dahia, M. Santos and M. Pamplona Segundo, "A study of cnn outside of training conditions", *IEEE ICIP*, 2017.
- Workshop:** M. Pamplona Segundo and R. Lemes, "Pore-based ridge reconstruction for fingerprint recognition", *IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, 2015.
- Conference:** R. Lemes, M. Pamplona Segundo, O. Bellon and L. Silva, "Dynamic Pore Filtering for Keypoint Detection Applied to Newborn Authentication", *IEEE ICPR*, 2014.
- Journal:** M. Shreve, M. Pamplona Segundo, T. Luguev, D. Goldgof and S. Sarkar, "High-resolution 3D surface strain magnitude using 2D camera and low-resolution depth sensor", *Pattern Recognition Letters*, 2014.
- Journal:** M. Pamplona Segundo, L. Silva, O. Bellon and S. Sarkar, "Orthogonal projection images for 3D face detection", *Pattern Recognition Letters*, 2013.
- Workshop:** M. Pamplona Segundo, S. Sarkar, D. Goldgof, L. Silva and O. Bellon, "Continuous 3D Face Authentication using RGB-D cameras", *IEEE CVPRW*, 2013.
- Conference:** M. Pamplona Segundo, L. Silva and O. Bellon, "Improving 3D face reconstruction from a single image using half-frontal face poses", *IEEE ICIP*, 2012.
- Conference:** M. Pamplona Segundo, L. Gomes, O. Bellon and L. Silva, "Automating 3D Reconstruction Pipeline by SURF-based Alignment", *IEEE ICIP*, 2012.
- Conference:** M. Pamplona Segundo, L. Silva and O. Bellon, "Real-Time Scale-Invariant Face Detection on Range Images", *IEEE SMC*, 2011.
- Conference:** J. Choi, G. Medioni, Y. Lin, L. Silva, O. Bellon, M. Pamplona Segundo, T. Faltemier, "3D Face Reconstruction Using A Single or Multiple Views", *IEEE ICPR*, 2010.
- Journal:** M. Pamplona Segundo, L. Silva, O. Bellon and C. Queirolo, "Automatic Face Segmentation and Facial Landmark Detection in Range Images", *IEEE TSMC Part B. Cybernetics*, 2010.
- Journal:** C. Queirolo, L. Silva, O. Bellon and M. Pamplona Segundo, "3D Face Recognition Using Simulated Annealing and the Surface Interpenetration Measure", *IEEE TPAMI*, 2009.
- Book chapter:** C. Queirolo, S. Drovetto Junior, L. Silva, O. Bellon and M. Pamplona Segundo, "Hierarchical Evaluation Model: Extended Analysis for 3D Face Recognition", *CCIS*, Springer Verlag, 2009.
- Conference:** C. Queirolo, L. Silva, O. Bellon and M. Pamplona Segundo, "3D face recognition using the Surface Interpenetration Measure: A comparative evaluation on the FRGC database", *IEEE ICPR*, 2008.
- Conference:** M. Pamplona Segundo, C. Queirolo, O. Bellon and L. Silva, "Automatic 3D facial segmentation and landmark detection", *IAPR ICIAP*, 2007.
- Conference:** C. Queirolo, M. Pamplona Segundo, O. Bellon and L. Silva, "Noise versus Facial Expression on 3D Face Recognition", *IAPR ICIAP*, 2007.
- Conference:** O. Bellon, L. Silva, C. Queirolo, S. Drovetto Junior and M. Pamplona Segundo, "3D face image registration for face matching guided by the surface interpenetration measure", *IEEE ICIP*, 2006.

HONORS

- Second place on Intel's Movidius Challenge
- Third place on IARPA's Functional Map of the World challenge
- World finalist in the 2017 ACM-ICPC (coach)
- Gold medal in the 2017 ACM-ICPC South America/Brazil Finals (coach)
- Top 10 in IEEEExtreme 10.0, 2016 (out of 2118 teams, coach)
- World finalist in the 2016 ACM-ICPC (coach)
- Silver medal in the 2016 ACM-ICPC South America/Brazil Finals (coach)
- Top 10 in IEEEExtreme 9.0, 2015 (out of 2040 teams, coach)
- Honorable mention in the Workshop of Undergraduate Works - SIBGRAPI 2015
- Third best thesis in the Theses and Dissertations Contest - CSBC 2014
- Second best paper in the Workshop of Undergraduate Works - SIBGRAPI 2007 and 2008
- Best paper in the Workshop of Undergraduate Works - SIBGRAPI 2007
- Third best paper in the Workshop of Undergraduate Works - SIBGRAPI 2006

REVIEWER SERVICE

- IEEE Transactions on Pattern Analysis and Machine Intelligence
- IEEE Transactions on Image Processing
- IEEE Transactions on Information Forensics and Security
- IEEE Sensors Journal
- IEEE Signal Processing Letters
- IET Biometrics
- IET Computer Vision
- Information Sciences
- Pattern Recognition
- Pattern Recognition Letters
- International Journal of Pattern Recognition and Artificial Intelligence
- EURASIP Journal on Image and Video Processing
- Computer & Graphics
- MDPI Sensors

STUDENTS

- Current

- Leone da Silva de Jesus, D.Sc. student
- André Brasil Vieira Wyzykowski, D.Sc. student
- Adeilson Antonio da Silva, M.Sc. student
- Matheus Magalhães Batista dos Santos, M.Sc. student
- Rafael Henrique Tibães, M.Sc. student
- Gabriel Dahia Fernandes, B.Sc. student
- Ubiratan Correia Barbosa Neto, B.Sc. student

- Past

- Lucas Amparo Barbosa (M.Sc., currently at SENAI CIMATEC/Brazil), 2018
- Gabriel Lecomte Pinho e Souza (senior project, currently at TFG Co), 2018
- Roberto Sales Caldeira (REU/senior project, currently at Google/Brazil), 2018
- Jonathan Coutinho Luz de Queiroz (REU, currently at Microsoft/USA), 2017
- Antônio Roberto Paoli (senior project), 2016
- Caio Araújo Neponoceno de Lima (senior project, currently at UFMG/Brazil), 2016
- Mateus Cordeiro Gonçalves de Carvalho (REU, currently at Google/Brazil), 2016
- Daniel Rodrigues Carvalho (senior project, currently at INRIA/France), 2015