Matheus Gadelha

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College of Information and Computer Sciences
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EDUCATION

University of Massachusetts - Amherst, Amherst, MA
Ph.D., Computer Science, Fall 2015 - Present

Federal University of Rio Grande do Norte, Natal, RN, Brazil
B.Sc., *M.Sc.* Computer Science, 2008 - 2014

RESEARCH

Google
working with Abhijit Kundu and Thomas Funkhouser.
Research Intern, Summer 2020

Adobe Research
working with Giorgio Gori, Duygu Ceylan, Radomir Mech, Nathan Carr and Tamy Boubekeur.
Research Scientist Intern, Summer 2019

Amazon Web Services
working with Tal Hassner.
Applied Scientist Intern, Summer 2018

CICS, University of Massachusetts - Amherst
Research Assistant, Fall 2015 - Present
Shape and image synthesis using deep learning

DIMAp, Federal University of Rio Grande do Norte
Research Assistant, 2012 - 2014
Keypoint descriptors; realistic augmented reality

TEACHING

Teaching Assistant University of Massachusetts Amherst
Amherst, MA
Spring 2018 - Undergraduate Computer Vision
Fall 2018 - Graduate Computer Vision
Spring 2019 - Introduction to Computer Graphics

Temporary Lecturer Federal University of Rio Grande do Norte
Natal, RN, Brazil 2014 - 2015
Introduction to Algorithms and Numerical Analysis

PAPERS

Matheus Gadelha*, Aruni RoyChowdhury*, Gopal Sharma, Evangelos Kalogerakis, Liangliang Cao, Erik Learned-Miller, Rui Wang, Subhransu Maji. *Label-Efficient Learning on Point Clouds using Approximate Convex Decompositions.* Under review.

Matheus Gadelha, Rui Wang, Subhransu Maji. *Deep Manifold Prior.* Under review.

Matheus Gadelha, Giorgio Gori, Duygu Ceylan, Radomir Mech, Nathan Carr, Tamy Boubekeur, Subhransu Maji, Rui Wang. *Learning Generative Models of Shape Handles.* Computer Vision and Pattern Recognition (CVPR) 2020.

Matheus Gadelha, Aartika Rai, Subhransu Maji, Rui Wang. *Inferring 3D Shapes from Image Collections using Adversarial Networks.* Accepted to International Journal of Computer Vision (IJCV), pre-print arXiv: 1906.04910.

Matheus Gadelha, Rui Wang, Subhransu Maji. *Shape Reconstruction using Differentiable Projections and Deep Priors.* International Conference on Computer Vision (ICCV), 2019.

Zezhou Cheng, **Matheus Gadelha**, Daniel Sheldon, Subhransu Maji. *A Bayesian Perspective on the Deep ImagePrior.* Computer Vision and Pattern Recognition (CVPR), 2019.

Matheus Gadelha, Rui Wang, Subhransu Maji. *Multiresolution Tree Networks for 3D Point Cloud Processing.* European Conference on Computer Vision (ECCV), 2018.

Jong Chyi-Su **Matheus Gadelha**, Rui Wang, Subhransu Maji. *A Deeper Look at 3D Shape Classifiers.* Second Workshop on 3D Reconstruction Meets Semantics (ECCV), 2018.

Matheus Gadelha, Subhransu Maji, Rui Wang. *Unsupervised 3D Shape Induction from 2D Views of Multiple Objects.* International Conference on 3D Vision (3DV), 2017.

Zhaoliang Lun, **Matheus Gadelha**, Evangelos Kalogerakis, Subhransu Maji, Rui Wang. *3D Shape Reconstruction from Sketches via Multi-view Convolutional Networks.* International Conference on 3D Vision (3DV - *Oral*), 2017.

Matheus Gadelha, Subhransu Maji, Rui Wang. *Shape Generation using Spatially Partitioned Point Clouds.* 28th British Machine Vision Conference (BMVC), London, Great Britain, 2017.

Matheus Gadelha, Bruno Motta. *DRINK: Discrete Robust INvariant Keypoints.* 22nd International Conference on Pattern Recognition (ICPR), Stockholm, Swedden, 2014.

REVIEWING	International Conference in Computer Vision (ICCV) 2019 Conference on Computer Vision and Pattern Recognition (CVPR) 2018, 2019, 2020 Transactions on Pattern Analysis and Machine Intelligence (TPAMI) 2018 European Conference on Computer Vision (ECCV) 2018, 2020 Computer and Graphics Journal 2018 SIGGRAPH Asia 2018 Pacific Graphics 2019
OTHER SERVICE	Graduate Student Representative (CICS – UMass Amherst) 2019-2020
COMPUTER SKILLS	**Languages**: C, C++, Python, Java, JavaScript **Libraries**: OpenGL, Tensorflow, PyTorch, OpenCV, Numpy, SkLearn **Applications**: Vi/Vim, Git, Latex, Unity3D.