# JHONY KAESEMODEL PONTES

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## **Research Interests**

3D Computer Vision, Machine Learning

Educat	tion		
	Ph.D. in Computer Vision	10/2015 - 08/2019	
	"3D shape representation and reconstruction from images"		
	Supervised by Clinton Fookes, Anders Eriksson, and Sridha Sridharan		
	Queensland University of Technology (QUT), Brisbane, Australia		
	Visiting Research Scholar	01/2017 - 07/2017	
	Research on 3D reconstruction at the CI2CV Computer Vision Lab		
	Supervised by Simon Lucey		
	The Robotic Institute, Carnegie Mellon University (CMU), Pittsburgh, USA		
		04/2012 12/2014	
	M.Sc. in Electrical Engineering	04/2013 - 12/2014	
	"Hierarchical age estimation based on global and local features from facial images"		
	Supervised by Alessandro Koerich and Clinton Fookes		
	Federal University of Paraná (UFPR), Curitiba, Brazil		
	B.E. in Computer Engineering	02/2007 - 12/2012	
	Pontifical Catholic University of Paraná (PUCPR), Curitiba, Brazil		
	Exchange Program in Electrical Engineering	08/2010 - 06/2011	
	Czech Technical University (CTU), Prague, Czech Republic	, , ,	
	Technical in Mechatronics	02/2003 - 07/2004	
		02/2003 - 07/2004	
	Ensitec High School and Professional Education, Curitiba, Brazil		
Experi	ence		
-	Argo AI - Pittsburgh, USA		
	Postdoctoral Research Scientist	09/2019 - current	
	• Research on 3D perception for self-driving systems		
	PRO Unlimited — Brisbane, Australia Research Software Engineer @ Facebook Reality Labs	02/2019 - 06/2019	
		02/2019 - 00/2019	
	• Research on 3D reconstruction (part-time)		
	Facebook Reality Labs — Redmond, USA		
	Research Intern	06/2018 - 11/2018	
	• Research on 3D reconstruction		
	Queensland University of Technology — Brisbane, Australia		
	Machine Learning Tutor	02/2018 - 05/2018	
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	Queensland University of Technology — Brisbane, Australia	02/2016 04/2016	
	Research Assistant	02/2016 - 04/2016	
	• Assistance in writing and revising a grant proposal for the Australian Research Council (ARC)		
Groupe Renault — São José dos Pinhais, Brazil			
	Algorithm Engineer	06/2013 - 07/2015	

• Model-based design of control systems for flex-fuel engines

Soditech — São José dos Pinhais, Brazil		
Algorithm Engineer @ Groupe Renault	04/2012 - 06/2013	
• Model-based design of control systems for flex-fuel engines		
Medequip Systems (Airsys) — Curitiba, Brazil		
Mechatronics Technician	05/2006 - 03/2012	

## Skills

Programming Languages: Python, C++, Matlab Software and Platforms: OpenCV, PyTorch, TensorFlow

## Awards

Supervisor Top Up PhD Scholarship — Queensland University of Technology (QUT), 2018 to 2019
Science Without Borders scholarship — Ministry of Education of Brazil, 2015 to 2019
Erasmus Mundus EuBrazil StartUp scholarship — European Commission, 2010 to 2011
Best Student Award — Technical in Mechatronics, Ensitec, 2004

#### Publications

Conference papers

- Mateusz Michalkiewicz, Jhony K. Pontes, Dominic Jack, Mahsa Baktashmotlagh, Anders Eriksson, "Implicit surface representations as layers in neural networks", *International Conference on Computer* Vision (ICCV), 2019.
- [2] Jhony K. Pontes, Chen Kong, Sridha Sridharan, Simon Lucey, Anders Eriksson, Clinton Fookes, "Image2Mesh: a learning framework for single image 3D reconstruction", Asian Conference on Computer Vision (ACCV), 2018.
- [3] Dominic Jack, Jhony K. Pontes, Clinton Fookes, Anders Eriksson, Sareh Shirazi, Frederic Maire, "Learning free-form deformations for 3D object reconstruction", Asian Conference on Computer Vision (ACCV), 2018.
- [4] Jhony K. Pontes, Chen Kong, Anders Eriksson, Clinton Fookes, Sridha Sridharan, Simon Lucey, "Compact model representation for 3D reconstruction", International Conference on 3D Vision (3DV), 2017.
- [5] Jhony K. Pontes, Alessandro L. Koerich, Clinton Fookes, Alceu S. Britto Jr, "Two-stage facial age prediction using group-specific features", *International Conference on Acoustics, Speech, and Signal Pro*cessing (ICASSP), 2017.

### Journals

[6] Jhony K. Pontes, Alessandro L. Koerich, Clinton Fookes, Alceu S. Britto Jr, "A flexible hierarchical approach for facial age estimation based on multiple features", Pattern Recognition, Volume 54, Pages 34-51, June 2016.

#### Patents

[7] Fabio Vicentini, Jhony K. Pontes, "Installation d'alimentation en carburant d'un moteur a combustion interne". Renault do Brasil S.A, France FR3043722A1, 2017.