

José Alonso Solís-Lemus

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Education

- 2015–Exp 2019 **Ph.D., Biomedical Engineering**, City, University of London, London.
- 2007–2013 **B.Sc., Applied Mathematics**, Instituto Tecnológico Autónomo de México (ITAM), Mexico City, Hons.
- 2003–2008 **B.Eng., Telematics Engineering**, Instituto Tecnológico Autónomo de México (ITAM), Mexico City, Hons.

Publications

- 2017 **An objective comparison of cell-tracking algorithms**, Ulman, Maška, Magnusson, Ronneberger, Haubold, Harder, Matula, Matula, Svoboda, Radojevic, Smal, Rohr, Jaldén, Blau, Dzyubachyk, Lelieveldt, Xiao, Li, Cho, Dufour, Olivo-Marin, Reyes-Aldasoro, **Solís-Lemus**, ... and Ortiz-de-Solorzano, Nature Methods.

- 2017 **Segmentation and Shape Analysis of Macrophages using Anglegram Analysis**, **Solís-Lemus, JA**, Stramer, B, Slabaugh, G and Reyes-Aldasoro, CC, Journal of Imaging.

Conference papers

- 2017 **Segmentation of Overlapping Macrophages Using Anglegram Analysis**, **Solís-Lemus, JA**, Stramer, B, Slabaugh, G and Reyes-Aldasoro, CC, Medical Image Understanding and Analysis, Edinburgh, Scotland, CCIS, Springer.
- 2015 **Microfluidic environment and tracking analysis for the observation of Artemia Franciscana**, **Solís-Lemus, JA**, Huang, Y, Wlodkowic, D, Reyes-Aldasoro, CC, British Machine Vision Conference, Swansea, Wales.

Submitted

- 2017 **Shape Analysis and Tracking of Migrating Macrophages**, **Solís-Lemus, JA**, Stramer, B, Slabaugh, G and Reyes-Aldasoro, CC, IEEE Symposium on Biomedical Imaging, WA, US.

Academic Activities

- 2018 - Present **Sessional Tutor**, *Foundation Mathematics / Statistics*, Kaplan International College London, Dr Radmila Topalovic.
- 2016 - Present **Graduate Teaching Assistant**, *Medical Imaging Modalities (BEng) / Medical Imaging (MEng)*, City, University of London, Dr Constantino Carlos Reyes-Aldasoro.
- 2016 - Present **Graduate Teaching Assistant**, *Biosignal and Image Processing (BEng)*, City, University of London, Dr Constantino Carlos Reyes-Aldasoro.
- 2014 **Visiting Lecturer in Mathematics**, *Introduction to Mathematics (BSc)*, ITAM.
- 2010/11 **Faculty assistant**, *Advise on mathematical subjects to all students on campus*, ITAM, Dr Cesar Luis García.

Volunteer work

2010-2012 **High-school teacher for adults**, *Courses taught: Mathematics IV and V, Physics I and II*, ITAM, Mexico.

Professional Experience

2014 **Software Developer**, *Developer specialising in Java and working on network monitoring*, Eficiencia Informativa (transl. *Information Efficiency*), Carlos Fuentes.

Consulting

2014 **Research project assistant**, *Feasibility study for the Puebla ITS Technologies Project with the assessing of the deployment and integration of intelligent transportation system technologies into the Bus Rapid Transit System*, ITAM, Mexico, Dr Andre Possani Espinosa.

Software development

2017 **Anglegram**, <https://github.com/alonsoJASL/matlab.anglegram>, MATLAB® package for shape analysis of binary images.

2015 **PhagoSight**, <https://github.com/phagosight/phagosight>, MATLAB® package for segmentation and tracking of fluorescent microscopy time-lapse sequences, Collaboration with CC Reyes-Aldasoro.

Computer skills

Mathematics	Matlab
Programming	Java, C++, Python, Julia, bash
Statistics	R, SAS, SPSS
Microsoft	Office, Visual Basic

Fellowships and Awards

2018	Associate Fellow	Higher Education Academy (HEA)
2017	City Graduate School Conference Travel Bursary	University of London
2015	PhD Studentship	SMCSE. City, University of London
2014	Ex-ITAM Research Award in Technology and Engineering	ITAM
2012/13	Engineering Students Academic Excellence Award	ITAM

Languages

Spanish	Native language
English	Proficient level: TOEFL iBT, 2014 (111/120); IELTS, 2014 (7.5/9)
German	Beginner level: A1 Start Deutsch 1 (2008)

Referees

- **Dr Constantino Carlos Reyes-Aldasoro**, Senior Lecturer, School of Mathematics, Computer Science and Engineering. City, University of London. reyes@city.ac.uk
- **Dr Greg Slabaugh**, Senior Lecturer, School of Mathematics, Computer Science and Engineering. City, University of London. gregory.slabaugh.1@city.ac.uk
- **Dr Andre Possani**, Course Director of Mechatronics Engineering, Department of Digital Systems. ITAM. possani@itam.mx
- **Dr César Luis García**, Course Director of Applied Mathematics, Department of Mathematics, Statistics. ITAM. clgarcia@itam.mx