Salem Alqahtani

State University of New York at Buffalo   Email: salemmoh@buffalo.edu
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Research summary: Currently, I am working on Blockchain consensus protocols to develop a new system consensus algorithm. Broadly, I am interesting in distributed systems.

Professional Preparation

M.S. in Computer Science, University of Connecticut, Storrs, CT, 2015
B.S. in Computer Science, King Khalid University, ABHA, KSA, 2010

Honors & Awards

2010   Second Honor Degree from King Khalid University

Teaching Experience

2010   Data Structure , King Khalid University, KSA

Fieldwork Experience

2014   Wireless Sensor Networks, UC-Berkeley, CA (3 days, one trips)

Publications

Conference articles

[1] Fricker H.A., **F.S. Paolo**, M.R. Siegfried, S. Adusumilli, Short-term changes in Antarctica's ice shelves are key to predicting their long-term fate, *The Conversation* (2018). theconversation.com

Theses and dissertations

[1] **Paolo F.S.** (2015), *Interannual and decadal variations of ice shelves using multi-mission satellite radar altimetry, and links with oceanic and atmospheric forcings*, PhD Dissertation, University of California, ProQuest Dissertations Publishing, 127 pages. fspaolo.net/work/phd

Additional Training & Certifications

Cutting Edge Deep Learning for Coders (part 2), 2019
Fast.ai, online course (20 hours of lessons)

Pre-Antarctic Training for the Brazilian Antarctic Program, 2003
Brazilian Navy, Rio de Janeiro (7 days at sea + 7 days in the mountains)

Other Skills & Qualifications

Programming

See my GitHub at https://github.com/fspaolo

Python (using since 2005) C/C++ Fortran 90/95 JavaScript R
Matlab Shell-Script SQL HTML CSS JSON YAML LaTeX Git

Development

Lead developer of the following projects:

CAP-Toolkit – NASA's JPL Cryosphere Altimetry Processing Toolkit (private repo)
AltimPy – Set of tools for processing satellite altimetry data (Python library)

Supercomputing

Experience with the following systems:

Triton cluster (4,000 cores, 100 Tflops) @ San Diego Supercomputer Center

Languages

English (professional proficiency) *Portuguese* (native speaker) *Spanish* (native speaker)

Professional Service

Reviewer

Nature, Nature Geoscience, Geophysical Research Letters, Earth and Planetary Science Letters, Marine Geodesy, Journal of Glaciology, The Cryosphere.

NASA: High Mountain Asia Panel, Washington DC, Jul 2016
National Science Foundation (NSF): Polar Programs / Antarctic Research
UK Parliament: POST Note "Understanding Rising Sea Levels", www.parliament.uk

(Co-)Organizer

2016 International Glaciological Society Symposium, La Jolla/CA, Jul 2016
2012 Earth Section Seminar Series at Scripps Oceanography
2011 Geophysics Seminar Series at Scripps Oceanography
2002 1st Brazilian Oceanography Symposium, São Paulo, Aug 2002

Mission support

Contributed to NASA's ICESat-2 Science Team

Affiliations

American Geophysical Union ([AGU](#))   European Geosciences Union ([EGU](#))

Conference Presentations

(*First author abstracts only*)

[1] Paolo et al. (July 2019), *25 years of Antarctic ice shelf melt measured from space*, JPL 2019 Postdoc Research Day, Pasadena/California

[2] Paolo et al. (May 2019), *Time-varying melt rates from Antarctic ice shelves*, JPL OSE Meeting, Pasadena/California

[3] Paolo et al. (2007), *Caracterização da morfodinâmica de fundo da Barra de Cananéia através de métodos geofísicos*, 14th Scientific Initiation Symposium of the University of São Paulo

Press

Article URLs available at http://fspaolo.net/work/press

Interviews given to: *Los Angeles Times, The Washington Post, Reuters, BBC News, The Wall Street Journal, The Guardian, Neewsweek, The Weather Channel, CBS News TV, Carbon Brief, Science/AAAS News*, etc.