Osita Onyejekwe

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Technical and Personal skills

- **Programming Languages:** Proficient in: Matlab, R-Studio, TeX, Fortran, Unidata|NetCDF, Python, Anaconda, Jupyter
- **Industry Software Experience:** VPN, FTP Security (File Transfer Protocol).
- **Analysis:** Data mining, Signal Processing, machine learning with an interest in deep learning.

Education

- **Florida Institute of Technology** — **Melbourne, FL**
  PH.D., Operations Research — *2012–2017*
- **Florida Institute of Technology** — **Melbourne, FL**
  M.Sc., Applied Mathematics — *2010–2012*
- **Northern Arizona University** — **Flagstaff, AZ**
  B.Sc., Environmental Engineering — *2006–2009*
- **New England College** — **Henniker, NH**
  B.A., Mathematics — *2004–2006*

Academic Appointment

- **University of Colorado Boulder** — **Boulder, CO**
  Admissions committee member for the APPM PMD Program — *Aug 2020 – Present*
- **University of Colorado Boulder** — **Boulder, CO**
  Instructor, Department of Applied Mathematics (APPM) — *January 2020 – Present*
- **University of Colorado Denver** — **Denver, CO**
  Lecturer, Department of Mathematical and Statistical Sciences — *Aug 2019 – Aug 2020*
- **University of Colorado Boulder** — **Boulder, CO**
  Lecturer, Department of Mathematics — *Aug 2018 – December 2019*
- **Front Range Community College** — **Westminster, CO**
  Adjunct Instructor, Mathematics Department — *February 2018 – May 2019*
- **Burgio Enterprises, Ltd** — **Palm Bay, FL**
  Medical Internship (burgiomedicalresearch.com) — *May 2017 – Aug 2017*

Refereed Journal Publications

- Kachouie, N.N.; **Onyejekwe, O.E.** Climate Change Study via the Centennial Trend of Climate Factors. Hydrology 2020, 7, 25. https://doi.org/10.3390/hydrology7020025

- Burgio M, **Onyejekwe OE** (2018) Degenerative Disc Disease in the Active Military Special Forces and the Financial Benefits of Early Detection Using a Quadruple Blind-Study. J Bioequiv Availab 10: 004-006. Doi: 10.4172/jbb.1000366

- Burgio M, **Onyejekwe OE** (2018) Diagnoses of Young Trauma Victims with Disc Desiccation a Quadruple-Blind Methodology. J Bioequiv Availab 10: 011-013. Doi: 10.4172/jbb.1000368

- **Onyejekwe, Osita** Holman, Bryan Kachouie, Nezamoddin. (2017). Multivariate models for predicting glacier termini. Environmental Earth Sciences. 76. 10.1007/s12665-017-7135-2.

Conferences

- **2020 National Workshop on Data Science Education**. I was selected and partook in the 2020 National Workshop on Data Science Education at UC Berkley. This conference was organized by UC Berkeley's Division of Computing, Data Science, and Society with support from Microsoft and the West Big Data Innovation Hub and covered materials pertaining to Jupyter infrastructure, Data 8 teaching guides, Data 100, and Data Science Modules and Connectors

Work In Progress

- **Research Title**: Prediction of Extreme Precipitation Events in Mauna Loa, Hawaii using Multivariate models
  Journal : Nature

- **Research Title**: Ensemble Bandwidth Optimization for Denoising
  Journal : IEEE Transactions on Signal Processing

Notable Projects

- **Burgio Medical Research** *'A New Research Methodology'*
  - Contributed to the company's first clinical research findings on Degenerative Disk Diseases in military personnel as well as reducing disc Desiccation in young trauma victims using a quadruple blind study.