



Jason Kinser, DSc

Chair, Department of Computational and Data Sciences
Member, Center for Modeling and Simulation

Education

DSc, Optics & Electro-Optical Systems, Southeastern Institute of Technology

Key Interests

Image Analysis | Education | Data Mining | Scientific Algorithms | Image Operators |
Multi-domain Data Retrieval | Pulse-coupled Neural Network

CONTACT

Phone: 703-993-3785 | Email: jkinser@gmu.edu

Website: <https://cos.gmu.edu/cds/faculty-profile-jason-kinser/>

SELECT PUBLICATIONS

- › Kinser, J. M. (2018). *Image Operators: Image Processing in Python*. Boca Raton, FL: CRC Press.
- › Kinser, J. M. (2017). *Computational Methods for Bioinformatics: Python 3.4*.
- › Kinser, J. M. (2015). *Kinematic Labs with Mobile Devices*. San Rafael, CA: Morgan & Claypool Publishers.
- › Kinser, J. M. (2009). *Python for Bioinformatics*. Sudbury, MA: Jones and Bartlett Publishers.

Research Focus

Defining content of images seems easy because humans do it so easily. Computationally, the task is complex. Analysis of medical images leads to better understanding of the progression of diseases. Military organizations rely on the knowledge from images to better understand their theater of operation. My research defines algorithms in both the image and frequency spaces to extract pertinent information from visual information.

Current Projects

- Developing a unified mathematical language for image operators and processing.
- Defining learning algorithms with superior recall properties.