

Steven J. Pagano

- EDUCATION** **Drexel University**, Philadelphia, PA
Doctor of Philosophy, Mechanical Engineering and Mechanics, 2019
Master of Science, Mechanical Engineering and Mechanics, 2016
- Widener University**, Chester, PA
Bachelor of Science, Mechanical Engineering, 2013
Bachelor of Science, Physics, 2013
- County College of Morris**, Randolph, NJ
Associate of Science, Mathematics, 2006
- TEACHING EXPERIENCE** Visiting Assistant Professor, Widener University, Mechanical Engineering, Current
Adjunct Assistant Professor, Widener University, Mechanical Engineering, 2019
Adjunct Lecturer, Drexel University, Mechanical Engineering, 2019
Engineering Teaching Fellow, Drexel University, College of Engineering, 2014–2018
Teaching Assistant, Drexel University, Mechanical Engineering, 2013–2014
- MENTORING** Mentor for MEM Senior Design, Drexel University, 2014–2019
Mentor for HESS Undergraduate Scholars, Drexel University, 2013–2017
Engineering Department Aide, County College of Morris, 2006
Math and Science Tutor, County College of Morris, 2005
- PROFESSIONAL DEVELOPMENT** REU Student Coordinator, NSF REU Summer Program, 2017–2018
Session Chair, Novel Testing Techniques, Society of Exp. Mech., June, 2016
MEM Graduate Department Head Interviews, Drexel University, 2015
MEM Graduate Tenure and Promotion Committee, Drexel University, 2014
Master of Ceremony, Engineering Senior Project Day, Widener University, 2014
Engineer-in-Training, Pennsylvania, 2011
Active Society Memberships: ASME, SEM
- NOTABLE WORK** **Publications:**
Bellafatto, A., **Pagano, S.**, Mendoza, M., Masser, K., Palmese, G., Lamberson, L. (In review). DGEBA Mode-I Dynamic Fracture Behavior with Heterogeneous Toughening. *International Journal of Fracture Mechanics*.
- Pagano, S.**, Bellafatto, A., Mendoza, M., Masser, K., Palmese, G., Lamberson, L. (In review). DGEBA Mode-I Dynamic Fracture Behavior with Homogeneous Toughening. *International Journal of Fracture Mechanics*.
- Pagano, S. J.**, Jewell, P. A., Lamberson, L. E. (2019). A Tunable Modified-Hopkinson Impact Fatigue Device. *Review of Scientific Instruments*, 90(10), 105104.
- Barsoum, M. W., Zhao, X., Shanazarov, S., Romanchuk, A., Koumlis, S., **Pagano, S. J.**, Lamberson, L., Tucker, G. J. (2019). Ripplifications: A universal deformation mechanism in layered solids. *Physical Review Materials*, 3(1), 013602.
- Koumlis, S., **Pagano, S.**, del Rey, G. R., Kim, Y., Jewell, P., Noh, M., Lamberson, L. (2019). Drop on Demand Colloidal Suspension Inkjet Patterning for DIC. *Experimental Techniques*, 43(2), 137-148.
- Jewell, P., Shannahan, L., **Pagano, S.**, DeMott, R., Taheri, M., Lamberson, L. (2017). Rate and microstructure influence on the fracture behavior of cemented carbides WC-Co and WC-Ni. *International Journal of Fracture*, 208(1-2), 203-219.

Pagano, S. J., Hogan, J. D., Lamberson, L. (2016). Bone and bone surrogate fragmentation under dynamic compression. *Journal of Dynamic Behavior of Materials*, 2(2), 234-245.

Lamberson, L., Shannahan, L., **Pagano, S.** (2016). Shear Evolution of Fiberglass Composites Under Compression. *Experimental Mechanics*, 56(1), 69-80.

Conference Presentations:

S. Pagano, L. Lamberson, J. Hogan. (2016). A Comparison of Bone and Bone Surrogate Fragmentation. Paper presented at Society of Experimental Mechanics 12th Annual Conference, Orlando, FL.

S. Pagano, L. Lamberson, F. Pierron (2016). Image-Based Dynamic Fracture Analysis. Paper presented at the Society of Experimental Mechanics 12th Annual Conference, Orlando, FL.

L. Lamberson, L. Shannahan, **S. Pagano.** (2013). Invited Lecture: Matrix Rate Dependency in Continuous Filament Glass Fabric Composites. Paper presented at the American Society of Mechanical Engineers International Conference, San Diego, CA.

Patent:

Lamberson, L. E., **Pagano, S. J.**, and Jewell, P. A. (2018). U.S. Patent No. 9,995,665. Washington, DC: U.S. Patent and Trademark Office.

**SCHOLARSHIPS
AND HONORS**

Koerner Family Awards, 2019
George C. Hill Jr. Endowed Fellowship, 2016
Drexel Engineering Teaching Fellowship, 2014–2018
Honorable Mention, National Science Foundation, GRFP, 2014
Deans III Fellow, Drexel University, 2013–2014
Certificate of Appreciation, American Helicopter Society, 2013
Outstanding Transfer Student Award, Widener University, 2013
Deans Award for Best Oral Presentation, Widener University, 2013
Science Award, Widener University, 2012–2013
Boeing Academic Scholarship, 2012
ERIN Engineering Scholarship, 2012, 2011
Sigma Pi Sigma, The Physics Honor Society, Inducted in 2012
Tau Beta Pi, The Engineering Honor Society, Inducted in 2012
Boeing Academic Achiever Award, 2012

**PREVIOUS
EXPERIENCE**

Research Assistant Dynamic Multifunctional Materials Lab
2013–2019 Philadelphia, PA
Dissertation: “Investigations of Dynamic Fracture and Fragmentation in Brittle Polymers and Composites”. Primary focus of dynamic fracture mechanics and the use of ultra-high-speed digital image correlation.

Mechanical Designer Giovanetti Shulman Associates
2007–2010 Broomall, PA
Collaborated as a mechanical designer with senior engineers, architects, and other consultants for the design of HVAC and mechanical piping systems used in large office, hotel, entertainment facilities, and casinos.

Engineering Assistant

2001–2004

Monsen Engineering

Fairfield, NJ

Provided engineering support to mechanical, electrical, and automation departments as related to pharmaceutical building operations. Performed field surveys for mechanical HVAC and piping systems.

Civil Engineering Drafter

2000–2001

Baker Associates

Roxbury, NJ

Intern draftsman and field operator for a civil engineering company with a focus on residential and commercial land usage.

**COMPUTER
SKILLS****Languages:** Bash, Batch, English, HTML, L^AT_EX, Mathematica, MATLAB**Applications:** Abaqus, Adobe Creative Suite, Autodesk AutoCAD, MatchID, Microsoft Office Suite, Solidworks, Photron Fastcam, Shimadzu HPV-X and TrapeziumX**Operating Systems:** Android, Debian, HPC Environments, Gentoo, Redhat, Slackware, Windows Client and Server