

DEANNA C.E. SINEX, PhD Candidate | Curriculum Vitae

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EDUCATION

Doctorate of Philosophy, Bioengineering

Swanson School of Engineering, University of Pittsburgh

Concentration: Biomechanics

Dissertation Title: “Towards the Characterization and Literacy of Female Pelvic Organ Support”

Summer 2019

Pittsburgh, PA

Scholar Certification, Teaching STEM Disciplines

Engineering Education Research Center, Pitt Center for Integration, Research, Teaching and Learning (CIRTL), University of Pittsburgh

Teaching as Research Project Title: “A Pilot Study on the Investigation of the Development of Engineering Identity in Engineering Students at the University of Pittsburgh”

Summer 2019

Pittsburgh, PA

Bachelors of Science, Mechanical Engineering; Minor, Music

College of Information and Technology, Department of Mechanical Engineering

University of Maryland, Baltimore County

2012

Baltimore, MD

EMPLOYMENT

Bioengineering Ethics Course Consultant

University of Pittsburgh

2016

Pittsburgh, PA

Instructor

Snapology

2016

Bethel Park, PA

Private Math Tutor

Deanna C. Easley

2016-Present

Pittsburgh, PA

Senior Pianist

Mount Horeb Baptist Church

2005-2014

Washington, DC

New Product Integration Team Intern

General Electric Healthcare Maternal Infant Care

2010-2011

Laurel, MD

Service Engineering Intern

General Electric Healthcare Maternal Infant Care

2009-2010

Laurel, MD

LEADERSHIP ACTIVITIES

Vice President Engineering Diversity Graduate Student Association	2015-2016 Pittsburgh, PA
Programs/Events Coordinator Engineering Diversity Graduate Student Association	2014-2015 Pittsburgh, PA
Graduate Recruiter Engineering Office of Diversity	2012-Present Pittsburgh, PA
Graduate Liaison NSBE, University of Pittsburgh Chapter	2014-2015 Pittsburgh, PA
President NSBE, University of Maryland Baltimore County Chapter	2010-2011 Baltimore, MD
Conference Planning Chair NSBE, University of Maryland Baltimore County Chapter	2009-2010 Baltimore, MD
Vice President Tau Beta Pi, University of Maryland Baltimore County Chapter	2009-2011 Baltimore, MD

ACADEMIC SERVICE

Interviewer: Dept. of Bioengineering Recruitment Weekend, University of Pittsburgh	2016
Secretary: Society for Pelvic Floor Research, Trainee Affairs	2016-Present
Awards Committee: Society for Pelvic Floor Research	2016-Present
Selection Committee: Best Paper/Best Diversity Paper, ASEE Conference	2016
Editorial Board Member: Ingenium, 2 nd Edition, U. Pittsburgh	2015-2016
Selection Committee: Summer Research Institute, U. Pittsburgh	2013, 2015
Judge: Investing Now Summer Enrichment Design Competition, U. Pittsburgh	2015
Moderator: GEP Scholarship Presentations, U. Pittsburgh	2015, 2016
Moderator: Pre-PhD Summer Program Presentations, U. Pittsburgh	2014, 2016, 2017
Judge: Technical Research Exhibition, NSBE Fall Regional Conference (Region II)	2014

INVITED TALKS, PANELS, AND WORKSHOPS

Session Co-Moderator Society for Pelvic Floor Research	2017 Reno, NV
Interactive Workshop Developer: "Understanding Female Pelvic Anatomy: A Day in the Life of a Doctor" Carnegie Science Center Girls in STEM Program	2017 Pittsburgh, PA
Panel Member Society of Hispanic Professional Engineers, University of Pittsburgh Chapter	2017 Pittsburgh, PA

Guest Speaker	2017
Summer Academy for Mathematics & Science (SAMS), Carnegie Mellon University	Pittsburgh, PA
Creator and Facilitator	2017
Bioengineering Summer Camp Journal Club, University of Pittsburgh	Pittsburgh, PA
Guest Lecturer	2017
Central Catholic High School	Pittsburgh, PA
Lecture Title: Intro to Biomechanics	
Motivational Speaker & Ethics Instructor	2016
Bioengineering Summer Camp, University of Pittsburgh	Pittsburgh, PA
Presentation title: <i>"It's what's on the inside that counts"</i>	
Panel Developer & Moderator	2016, 2017
Bioengineering Summer Camp, University of Pittsburgh	Pittsburgh, PA
Panel title: <i>"Future STEM Careers"</i>	
Workshop Developer/ Leader	2016
Investing Now Program, University of Pittsburgh	Pittsburgh, PA
Presentation topic: <i>"Networking and Business Etiquette"</i>	
Workshop Developer/Leader	2014, 2015
Pitt EXCEL Fall Retreat, University of Pittsburgh	Pittsburgh, PA
Guest Speaker	2014
Pitt EXCEL, Family Dinner	Pittsburgh, PA
Guest Speaker	2014, 2016
Pitt EXCEL, Mid-year Motivation	Pittsburgh, PA
Workshop Leader & Facilitator	2014
National Society of Black Engineers, End Zone Summit	Pittsburgh, PA
Workshop title: <i>"So You Think You Can Code"</i>	
Workshop Leader & Facilitator	2014
National Society of Black Engineers, Fall Regional Conference (Region II)	Pittsburgh, PA
Workshop title: <i>"How to Code!"</i>	
Workshop Leader & Facilitator	2014

National Society of Black Engineers, University of Pittsburgh Chapter
Workshop title: "Graduate School: You Mean There is More?" Pittsburgh, PA

Guest Speaker 2013
Pitt EXCEL Summer Research Internship Workshop Pittsburgh, PA
Presentation title: "The Value of Obtaining a Graduate Education"

FELLOWSHIPS AND AWARDS

Provosts' Development Fund, University of Pittsburgh 2017
2nd Place, Podium Presentation, 1st Annual SPR Conference 2016
Best Overall Paper, 37th AUGS Conference (co-author) 2016
K. Leroy Irvis Fellowship, University of Pittsburgh 2012-2013
Graduate Research Fellow, University of Pittsburgh 2012-Present
Tau Beta Pi, University of Maryland Baltimore County 2008-2012
Golden Key National Honor Society, University of Maryland Baltimore County 2008-2012
Meyerhoff Scholar, University of Maryland Baltimore County 2007-2012

TEACHING EXPERIENCE

Course Developer & Instructor Summer Engineering Academy: 2014-2016
Engineering Problem Solving
Teaching Assistant Bioengineering 2241: Societal, Political and 2014
Ethical Issues in Bioengineering
Teaching Assistant Engineering 0015: Introduction 2014
Engineering Analysis I

CO-CURRICULAR MENTORING

Research Advisor/Mentor 2015-2016
Executive Experience Program, Science and Technology Academy Pittsburgh, PA
Lead E-mentor 2015
Learning Engineering and Design (LEAD) Program, Elizabeth Seton HS Maryland
Graduate Student Mentor 2014-2015
Society of Women Engineers, University of Pittsburgh Pittsburgh, PA
Senior Mentor 2012
UMBC Math Lab, Learning Resource Center Baltimore, MD
Peer Mentor 2011-2012

COMMUNITY SERVICE AND OUTREACH

Volunteer		2017
Nine Mile Run Watershed Association		Pittsburgh, PA
Volunteer		2015-2017
Hillhouse Passport Academy Charter School		Pittsburgh, PA
Motivational Speaker & Volunteer Camp Counselor		2015
Bioengineering Summer Camps, (Citizens Lab)		Pittsburgh, PA
Assistant Logistical Day Coordinator		2015
Bioengineering Summer Camp		Pittsburgh, PA
Volunteer Instructor		2015
Quest 2015: Finding your Future		Pittsburgh, PA
Camp Counselor		2012, 2014
Pittsburgh Tissue Eng. Initiative Summer Eng. Camp	Pittsburgh, PA & Greensboro, North Carolina	
Volunteer Builder		2012
KaBOOM: Build a Playground		Pittsburgh, PA
Camp Counselor		2003-2007
Summer Science Camp for Girls & Young Scientists' Academy (Montgomery College)		Takoma Park, MD

RESEARCH MENTORING

Residents

1. Magee Womens Hospital, (2016) *Vaginal Geometry Segmentation*

Medical Students

1. University of Pittsburgh, (2016-2017) *Vaginal Geometry Segmentation, Development of Primate MRI database*

Undergraduate Students

1. Junior-University of Minnesota, (2016) *Vaginal Geometry Segmentation*
2. Senior-University of Pittsburgh (2015-2017) *Utilization of photogrammetry to determine cross sectional area of tissue specimens; Ultrasound PVA Validation*
3. Senior-Community College of Allegheny County (2016) *Ultrasound PVA Validation*
4. Senior-University of Pittsburgh (2015-2016) *Utilization of photogrammetry to determine cross sectional area of tissue specimens; Ultrasound PVA Validation*
5. Junior-University of Pittsburgh (2013-2015) *Evaluation of the repeatability of a 3D Description of the Vaginal Axis*
6. Junior-Carnegie Mellon University (2015) *3D Modeling of Rhesus Macaque Anatomy*

7. Freshman-University of Pittsburgh (2014), *Evaluation of the repeatability of a 3D Description of the Vaginal Axis*
8. Senior-Community College of Allegheny County (2014) *Evaluation of the repeatability of a 3D Description of the Vaginal Axis*
9. Senior-University of Pittsburgh (2013-2014) *Evaluation of the repeatability of a 3D description of the vaginal axis; development of an algorithm to compute average geometries from multiple patient-specific vaginal geometries*
10. Junior-University of Pittsburgh (2012) *Establishing photogrammetry for the measurement of deformations in polypropylene mesh*

High School Students

1. Senior-SciTech Academy, (2016-2017) *The Development of a Female Pelvic Floor Computer Simulation*
2. Sophomore-SciTech Academy, (2016-2017) *The Application of Photogrammetry to Determine the Cross-Sectional Area of Tissue Specimens*
3. Freshman-Pittsburgh Creative and Performing Arts School, (2016-Present) *Vaginal Geometry Segmentation*
4. Senior-SciTech Academy, (2016) *Mathematical Characterization of Vaginal Geometries*
5. Junior-The British International School Abu Dhabi, (2016) *Vaginal Geometry Segmentation*
6. Freshman-Mars Area School District, (2015-2016) *Vaginal Geometry Segmentation*
7. Senior-SciTech Academy, (2015-2016) *The Development of 3D Patient Specific Pelvic Floor Models, Teaching Module*
8. Senior-Oakland Catholic (2015-2016) *Vaginal Geometry Segmentation*
9. Senior-Fox Chapel Area High School (2016), *Vaginal Geometry Segmentation*

PUBLICATIONS

Journal Publications

1. Liang, R., Knight, K., **Easley, D.**, Palcsey, S., Abramowitch, S., Moalli, P. A. Regeneration of Vaginal Support Utilizing an Extracellular Matrix Bioscaffold. *Acta Biomaterialia*. 2017.
2. **Easley, D.C.**, Abramowitch, S.D., Moalli, P.A. Pelvic Floor Biomechanics: Bridging the Gap. *Current Opinion in Urology*. 2017.

Peer Reviewed Conference Papers & Extended Abstracts

1. Liang, R., Knight, K., **Easley, D.**, Palcsey, S., Abramowitch, S., Moalli, P.A. Regeneration of Vaginal Support Utilizing an Extracellular Matrix Scaffold. 37th American Urogynecology Society Annual Scientific Meeting, Denver, CO, September 27-October 1, 2016 (**Conference Paper**, 2016)
2. **Easley, D.C.**, Menon, P.G., Moalli, P.A., Abramowitch, S.D. Inter-Observer Variability of Vaginal Wall Segmentation from MRI: A Statistical Shape Analysis Approach. American Society of Mechanical Engineers International Mechanical Engineering Congress & Exposition, Houston, TX, November 13-19, 2015 (**Conference Paper**; Publication, 2015)

Peer-Reviewed Abstracts

1. **Sinex, D.C.**, Moalli, P.A., Abramowitch, S.D. Changes in Hymenal Ring (HR) Position Resulting from Vaginal Parity 2nd Society for Pelvic Research Meeting. Reno, NV, December 2nd-3rd, 2017 **(Podium)**
2. **Easley, D.C.**, Barone, W.R., Moalli, P.A., Abramowitch, S.D. A Preliminary Evaluation of Vaginal Alignment Following a Transvaginal Procedure Using Matristem™ Pelvic Floor Matrix in the Rhesus Macaque. 1st Society for Pelvic Research Meeting. Charleston, SC, December 5th-6th, 2016 **(Podium)**
3. **Easley, D.C.**, Knight, K., Liang, R., Abramowitch, S.D., Moalli, P. Regeneration of Vaginal Support Utilizing an ECM Bioscaffold: Impact of Active and Passive Tissue Mechanics. 37th American Urogynecology Society Annual Scientific Meeting, Denver, CO, September 27th-October 1st, 2016 **(Podium)**
4. **Easley, D.C.**, Menon, P.G., Rostaminia, G., Shobeiri, S.A., Abramowitch, S.D. Impact of Endovaginal Ultrasound on the Anatomical Positioning of Pelvic Floor Organs. Pittsburgh MR Imaging Community Retreat, Pittsburgh, PA, November 5, 2015 **(Poster)**
5. Alperin, M., **Easley, D.**, Menon, P., Cook, M., Barone, W., Abramowitch, S. A Novel Approach to Map Quantified Fascicle Data onto a 3D Model of Pelvic Floor Muscles. 36th American Urogynecology Society Annual Scientific Meeting, Seattle, WA, October 13-17, 2015 (Oral Poster Presentation)
6. Rostaminia, G., **Easley, D.C.**, Menon, P.G., Shobeiri, S.A., Abramowitch, S.D. Is the Pelvic Floor Anatomy Distorted During Pelvic Floor Endovaginal Ultrasound? 36th American Urogynecology Society Annual Scientific Meeting, Seattle, WA, October 13-17, 2015 **(Oral Poster Presentation)**
7. **Easley, D.C.**, Barone, W.R., Moalli, P.A., Abramowitch, S.D. A Preliminary Evaluation of Vaginal Alignment Following a Transvaginal Procedure Using Matristem™ Pelvic Floor Matrix in the Rhesus Macaque. Midwest American Society of Biomechanics Regional Meeting, Akron, OH, February 17-18, 2015 **(Podium)**
8. **Easley, D.C.**, Menon, P.G., Moalli, P.A., Abramowitch, S.D. Inter-Observer Variability of Vaginal Wall Segmentation from MRI: A Statistical Shape Analysis Approach. American Society of Mechanical Engineers International Mechanical Engineering Congress & Exposition, Houston, TX, November 13-19, 2015 **(Podium)**
9. **Easley, D.C.**, Abramowitch, S.D., Moalli, P.A. A New Method to Determine Vaginal Axis and Spatial Position Using a 3D Anatomical Coordinate System. Southwest and Mid-Atlantic Biomedical Engineering Regional Career Conference, Washington, DC, October 25, 2013 **(Poster)**

Book Chapters

1. Abramowitch, S. and **Easley, D.**: Introduction to Classical Mechanics, to appear in Biomechanics of the Female Pelvic Floor. Ed. L. Hoyte, M. Damaser, Elsevier, Inc., Chapter 4, pp. 89-106, 2016.
2. Abramowitch, S. and **Easley, D.**: Biomechanical Characterization of Native Pelvic Floor Organs and Tissues, to appear in Biomechanics of the Female Pelvic Floor. Ed. L. Hoyte, M. Damaser, Elsevier, Inc., Chapter 5, pp. 109-126, 2016.

AFFILIATIONS AND MEMBERSHIPS

National Society of Black Engineers (NSBE) | Meyerhoff Scholars Program | Biomedical Engineering Society (BMES) | Tau Beta Pi (TBP) | Society of Women Engineers (SWE) | Society for Pelvic Floor Research (SPR)