

Mesut Pervizpour, Ph.D., PE

Curriculum Vitae

A. Biographical Information

Mesut Pervizpour

Professor or Practice
Civil and Environmental Engineering Department
Fritz Engineering Laboratory, 13 East Packer Ave.
Lehigh University, Bethlehem, PA 18015
Phone: (610) 758 - 2137
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Home

2219 Gordon St.
Allentown, PA 18104
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Website: <http://parameterid.com/>

Education

- 2000 **Ph.D.**, Civil and Environmental Engineering, Lehigh University
- 1994 **M.S.**, Civil and Environmental Engineering, Lehigh University
- 1992 **M.S.**, Engineering and Technology Management, Portland State University
- 1990 **B.S.**, Civil Engineering, Boğaziçi University

Research and Work Experience

- 2013- **Prof. of Practice**, Civil & Environmental. Eng. Dept., Lehigh University
- 2012-2013 **Visiting Assistant Prof.**, Civil & Environmental. Eng. Dept., Lafayette College
- 2006-2012 **Assistant Professor**, Civil Engineering Department, Widener University
- 2004-2006 **Visiting Assist. Professor**, Civil Engineering Department, Widener University
- 2003-2004 **Visiting Research Scientist**, Dept. of Civil and Envir. Eng., Lehigh University
- 1999-2003 **Research Assistant Professor**, Intelligent Infrastructure & Transportation Safety Institute, Drexel University
- 1992-1999 **Adjunct Instructor/Research and Teaching Assistant**, Lehigh University
- 1991-1992 **Teaching Assistant**, Portland State University

B. Courses Taught

Undergraduate Courses

Lehigh University

- ENGR 005 Engineering Techniques (Fall 2013- 2018)
- CEE 011 Surveying (Fall 2014- 2018)
- CEE 117 Numerical Methods in Civil Engineering (Spring 2014, 2015)
- CEE 142 Soil Mechanics (Summer 2005- 2007, and 2014- 2017)
- CEE 159 Structural Analysis I (Summer 2014 - 2018)
- CEE 202 CEE Planning and Engineering Economics (Spring 2014-2018)
- CEE 207 Transportation Engineering (Fall 2013 - 2018)
- CEE 244 Foundation Engineering and Design (Fall 2012)
- CEE 266 Construction Management (Fall 2013 - 2018)
- CEE 205/281 Independent Study (Fall 2014, Spring 2014, Fall 2015, Fall 2017 & 2018)

Other (Lafayette College and Widener University)

- ENGR 111 Engineering Techniques, Laboratory sessions (2004-2005)
- MATH 120 Precalculus, Problem sessions (2004-2005)
- ENGR 213 Statics (Fall 2005)
- VaST 203 Sustainability of Constructed Systems (Spring 2013)
- ENGR 300 Undergraduate Junior Independent Research, 7 students (2007-2011)
- ENGR 320 Fluid Mechanics (Summer 2005)
- ENGR 326 Materials Engineering (2005 – 2012 Fall and Summers)
- ENGR 400 Undergraduate Senior Independent Research, (2005 – 2013, 14 students)
- CE 321L Environmental Engineering Laboratory (Fall 2012)
- CE 341 Computational Methods in Civil Engineering (2006 - 2008), Developed
- CE 343 Soil Mechanics and Laboratory (2004 – present)
- CEE 361 Geotechnical Engineering and Laboratory (Fall 2012)
- CEE 462 Retaining Walls, Slopes and Dams (Spring 2013)
- CE 446 Foundation Engineering (2005 – 2012)

Graduate Courses

Lehigh University

- CEE 345 Geo-Environmental Engineering (Spring 2012, 2016, 2017)
- CEE 364 Advanced Project Management (Spring 2013-2018)
- CEE 395 Foundation Engineering (Fall 2012)
- CEE 428-23 Environmental Groundwater Hydrology (Spring 2012)
- CEE 481 MS. Project (Spring 2018)

Other (Lafayette College, Widener University)

- ENGR 616 Engineering Mathematics I (2010-2011 Summers)
- ENGR 627 Performance Evaluation of Constructed Facilities (Fall 2004)
- ENGR 643 Ground Improvement (Spring 2008), Developed

C. Publications and Creative Activities

Book Chapters

1. Pamukcu, S., Cheng, L., and *Pervizpour, M.* (2017), “Introduction and Overview of Underground Sensing for Sustainable Response,” Chapter 1 in *Underground Sensing Monitoring and Hazard Detection for Environment and Infrastructure*, 1st Edition, (Edited by S. Pamukcu, and L. Cheng). Elsevier, October 22, 2017 (pp. 1-42), ISBN: 9780128031391.

Articles in Refereed Journals

1. Cui, Q., Pamukcu, S., and *Pervizpour, M.*, (2015), “Impact Wave Monitoring in Soil Using a Dynamic Fiber Sensor Based on Stimulated Brillouin Scattering,” *Sensors*, Vol. 15(4), pp. 8163-8172.

2. Ghazanfari, E., Pamukcu, S., *Pervizpour, M.*, and Karpyn, Z., (2014), "Investigation of Generalized Relative Permeability Coefficients for Electrically Assisted Oil Recovery in Oil Formations," *Journal of Transport in Porous Media*, 1-19, DOI 10.1007/s11242-014-0368-6
3. Cui, Q., Pamukcu, S., Xiao, W. and *Pervizpour, M.* (2011), "Truly Distributed Fiber Vibration Sensor Using Pulse Base BOTDA with Wide Dynamic Range," *IEEE Photonics Technology Letters*, 3:24,1887-1889, 2011.doi:10.1109/LPT.2011.2170968.
4. *Pervizpour, M.* and Pamukcu, S. (2011), "Characterization of a surrogate swelling polymer as a functional sensor for distributed liquid sensing", *Sensors and Actuators A: Physical*, Vol. 168(2), Elsevier, pp. 242-252, doi:10.1016/j.sna.2011.04.026.
5. Cui, Q., Pamukcu, S., Lin, A., Xiao, W., Herr, D., Toulouse, J., and *Pervizpour, M.* (2011), "Distributed Temperature Sensing System Based on Rayleigh Scattering BOTDA", *IEEE Sensors Journal*, Vol. 11 (2), pp. 399-403, doi:10.1109/JSEN.2010.2066558.
6. Cui, Q, Pamukcu, S., Xiao, W., Guinrand, C., Toulouse, J., and *Pervizpour, M.* (2009), "Distributed fiber sensor based on modulated pulse base reflection and Brillouin gain spectrum analysis", *Applied Optics*, Vol. 48 (30), pp. 5823-5828, <http://dx.doi.org/10.1364/AO.48.005823>.
7. *Pervizpour, M.*, Pamukcu, S. and Moo-Young, H. (April 1999), "Magnetic Resonance Imaging of Hydrocarbon Contaminated Porous Media", *Journal of Computing in Civil Engineering*, Special Issue: "Imaging Technologies in Civil Engineering", ASCE, Vol. 13, No. 2, pp. 96–103, doi: [http://dx.doi.org/10.1061/\(ASCE\)0887-3801\(1999\)13:2\(96\)](http://dx.doi.org/10.1061/(ASCE)0887-3801(1999)13:2(96)).

Articles in Refereed Conference Proceedings

1. Lin, H., Cui, Q., *Pervizpour, M.*, Pamukcu, S., and Mentzer, MA., (2012), "Truly Distributed Measurement of Impact Strains in Clay by Use of Embedded BOTDA/R Fiber Optic Sensors," *GeoCongress 2012: GSP 225*, ASCE 3149-3158, March 25-29, 2012. <http://dx.doi.org/10.1061/9780784412121.322>
2. Medina, C.I., *Pervizpour, M.*, Pamukcu, S., and Mentzer, MA. (2012), "Temperature Dependent Dynamic Properties of Oily Clay", *Geo-Congress 2012, GSP 225*, ASCE, 2283-2291, March 25-29, 2012, Oakland, CA. doi.org/10.1061/9780784412121.234.
3. Ghazanfari, E., *Pervizpour, M.*, and Pamukcu, S., (2012), "Mathematical Modeling of Electrically Assisted Hydrocarbon Transport in Porous Media", *Geo-Congress 2012, GSP 225*, ASCE, 2302-2311, March 25-29, 2012. doi.org/10.1061/9780784412121.236.
4. Anastasio, S., Pamukcu S., and *Pervizpour, M.*, (2007), "BOTDR Detection of Chemical and Liquid Content", 7th FMGM Int. Symposium on Field Measurements in Geomechanics, ASCE, Sept 24-27, 2007, Boston, MA, pp. 1-12, [http://dx.doi.org/10.1061/40940\(307\)37](http://dx.doi.org/10.1061/40940(307)37)
5. McElroy, M. Jr., *Pervizpour, M.*, and Pamukcu, S. (2007), "Three Dimensional Finite Element Modelling of Stacked Geotextile Tubes for Embankment Stabilization," *Proceedings of 11th Int. Conf. on Civil, Structural and Environmental Eng. Computing*, B.H.V. Topping (ed.), Civil-Comp Press, Stirlingshire, UK, Paper 14, (2007), ISBN 978-1-905088-15-7. doi:10.4203/ccp.86.14
6. Anastasio, S., Pamukcu S., and *Pervizpour, M.*, (2007), "Chemical Selective BOTDR Sensing for Corrosion Detection on Structural Systems", *Proceedings of the 7th Workshop on Structural Health Monitoring (IWSHM 2007)*, Stanford, CA, 1701-1708, ISBN -13: 978-1-932-07871-8.

7. *Pervizpour, M., Pamukcu, S.* (June 1999), "Prediction of Phenomenological Coefficients of Coupled Flow at Transient State", Proceedings of 13th ASCE Engineering Mechanics Division Conference, The John Hopkins University, Baltimore, MA, (on CD).
8. *Pervizpour, M. and Pamukcu, S.* (1995), "Effect of Thermal Gradient on Soil-Water System", Proceedings of 27th Mid-Atlantic Industrial and Hazardous Waste Conference, Technomic Pub., Vol. 27, pp. 743 – 753.
9. *Pervizpour, M. and Pamukcu, S.* (1995), "Coefficient of Consolidation Under Thermal Potential", Geoenvironment 2000, Proceedings of a Specialty Conference Sponsored by the Geotechnical Engineering and Environmental Engineering Division, ASCE, pp. 242–255.
10. *Pervizpour, M. and Pamukcu, S.* (1994), "Application of Non-destructive Conduction Testing for Constant Thermal Gradient in Porous Medium", Proceedings of 8th International Conference of the Association for Computer Methods and Advances in Geomechanics, IACMAG, Balkema, Vol. 2, pp. 1775 – 1780.

Articles in Other Conference Proceedings

1. Catbas, F.N., *Pervizpour, M.*, Grimmelsman, K.A. and Aktan, A.E., (2003), "The Health Monitoring Paradigm for Infrastructure Systems", Proceedings of the Workshop on Structural Health Monitoring and Diagnostics of Bridge Infrastructure, held in University of California, San Diego, La Jolla, CA, March 7-8, 2003.
2. Aktan, A.E., Catbas, N., Grimmelsman, K., *Pervizpour, M.*, Curtis J., Shen, K., and Qin. X., (2002), "A Theory of Health Monitoring for Highway Bridges", July 14-17, 2002, Barcelona, Spain, First International Conference on Bridge Maintenance, Safety and Management, IABMAS 2002.
3. Aktan, A.E., *Pervizpour, M.*, Catbas, N., Grimmelsman, K., Barrish, R., Curtis J., and Qin. X., (2001), "Information Technology Research For Health Monitoring Of Bridge Systems", July 4-6, 2001, London, UK. Structural Faults & Repair 2001 Conference.
4. *Pervizpour, M.*, Curtis, J., Qin, X. and Aktan, A.E., (2001), "Data Processing and Quality Assurance in Health Monitoring of Constructed Systems", Paper presented at SPIE' s 6th International Symposium on NDE for Health Monitoring and Diagnostics, 4-8 March, 2001, and to be published in the SPIE Conference Proceedings, Newport Beach.
5. Ciloglu, K., Catbas, F.N., *Pervizpour, M.*, Wang, A. and Aktan, A.E., (2001), "Structural Identification of Phenomenological Physical Models With Controlled Mechanisms of Uncertainty", Paper presented at SPIE' s 6th International Symposium on NDE for Health Monitoring and Diagnostics, 4-8 March-2001, and to be published in the SPIE Conference Proceedings, Newport Beach.
6. Aktan, A.E., *Pervizpour, M.*, Catbas, F.N., Barrish, R., Grimmelsman, K., Qin, X., (2000), "Integrated Field, Theoretical and Laboratory Research for Solving Large Systems Identification Problems", Keynote Address invited for presentation and published in the Proceedings of Advances in Structural Dynamics Conference, Hong Kong, Dec. 2000.
7. Aktan, A.E., Catbas, F.N., *Pervizpour, M.*, Kulcu, E., Grimmelsman, K., Barrish, R. and Qin, X., (2000), "Real-Time Bridge Health-Monitoring for Management", Paper invited for presentation and published in the Proceedings of The Second Workshop on Advanced Technologies in Urban Earthquake Disaster Mitigation, DPRI, Kyoto University, Uji, Kyoto 611-0011, Japan, July 11-13, 2000.
8. Aktan, A.E., Catbas, F.N., *Pervizpour, M.*, Barrish, R., Grimmelsman K., (2000), "Field, Theoretical and Laboratory Research for Systems Identification of Civil Infrastructure

- Systems”, Advances in Civil Engineering IV, International Congress 1-2 November 2000, Eastern Mediterranean University, Gazimagusa, North Cyprus.
9. von Haza-Radlitz, G., Ciloglu, K., *Pervizpour, M.*, Barrish, R., Grimmelsman, K., Catbas, F. N. and Aktan, A.E., “Information Technology Issues In Fleet Health Monitoring”, Paper Invited for Workshop on Present and Future of Health Monitoring, Bauhaus University, Weimar, Sep. 2000, Proceedings, pp: 173-190, Aedificatio Publishers, D-79104 Freiburg, 2000.
 10. Qin, X., Aktan, A.E., Grimmelsman, K., Catbas, F.N., Barrish, R., *Pervizpour, M.*, Kulcu, E., (2000), “Distributed Internet-Based Multi-Agent Intelligent Infrastructure system”, NIST Performance Metrics for Intelligent Systems Workshop, Gaithersburg, MD August 14-16, 2000.
 11. *Pervizpour, M.* and Lyons, J. (1994), "A Multidisciplinary Overview on Mine Tailing Impoundment Approach", Proceedings of Third International conference on Environmental Issues and Waste Management in Energy and Mineral Production.

Refereed Reports

1. Pamukcu, S., Naito, C., and *Pervizpour, M.*, “Distributed Fiber-optic Sensing and Numerical Simulation of Shock Wave Response of Manufactured Clay: PHASE III: Bread Board and Technology Transfer,” Report Submitted to Department of Defense, DOD Aberdeen Test Center, Aberdeen, MD 21005, June 15, 2011.
2. Pamukcu, S., Naito, C., and *Pervizpour, M.*, “Distributed Fiber-optic Sensing and Numerical Simulation of Shock Wave Response of Manufactured Clay: PHASE II: Software Model and Bread Board,” Report Submitted to Department of Defense, DOD Aberdeen Test Center, Aberdeen, MD 21005, November 1, 2010.
3. Pamukcu, S., Naito, C., and *Pervizpour, M.*, “Distributed Fiber-optic Sensing and Numerical Simulation of Shock Wave Response of Manufactured Clay: PHASE I: Software Model,” Report Submitted to Department of Defense, DOD Aberdeen Test Center, Aberdeen, MD 21005, June 15, 2010.
4. Aktan, E., Grimmelsman, K., Catbas, N., and *Pervizpour, M.*, “A Model Health Monitoring Guide For Major Bridges,” Report Submitted to Federal Highway Administration FHWA, DOT/FHWA Solicitation: DTFH61-01-Q-00072, September 2002.
5. Pamukcu, S., and *Pervizpour, M.*, "Electroosmotically Aided Restoration of TCE Contaminated Soil," Final Report to Lawrence Livermore National Laboratory, Environmental Restoration Division, Contract No.B3460123, University of California, Livermore Ca. November 1998.

Other Reports

1. Moo-Young, H.K., *Pervizpour, M.*, Ochola, C., and Mo, X., “Multi-Regional Reactive Transport Due to Strong Anisotropy in Unsaturated Soils with Evolving Scales of Heterogeneity,” Report Submitted to Department of Energy, DOE Solicitation: DE-FG07-02ER63512, June 2004.
2. Pamukcu, S., *Pervizpour, M.*, and Wittle, K., "Electrochemical Extraction of Cyanide and Fluoride from Conductive Porous Media," report to EPI, Wayne, Pa. March 1998.

3. Pamukcu, S., *Pervizpour, M.*, and Wittle, K., "Electroosmotic Aided NAPL Remediation of Contaminated Soil: Stanford Linear Accelerator Site," Final Report to Weiss Associates, Emeryville Ca. November 1997.

Honors and Awards

- Professional Engineer (PE), October 2013
- Who is Who in Teaching, 2006
- Engineer in Training (EIT), State of Pennsylvania, December, 2006.
- Graduate Student Leadership Award (Civil Eng. Dept., Lehigh University), May 15, 1999
- Arthur E. Humphrey Excellence in Teaching Award, Lehigh University, 1997-98
- Outstanding Scholars of Portland State University Award, 1991
- Teaching / Research Assistantship (Civil Eng. Dept., Lehigh University), 1992-2000
- Teaching Assistantship (Eng. and Technology Mgmt., Portland State University), 1990-1992
- Undergraduate degree with Honors (Ranked fifth in Civil Engineering class of 58)

Research Grants

- "Soil Treatment with Rheological Fluids," (2011), PI, Widener Provost Grant, \$1,600.
- "Strain Measurements in Ballistic Backing Material Using Fiber-optic Sensors", (2010), Department of Defense, PI, Sub-contract from Lehigh University, \$12,873.
- "Acoustic Characterization of Frequency Dependent Elastic Properties of Hydrophilic Hydrogels," (2010), PI, Widener Provost Grant, \$1,500.
- "Swelling Response of a Polymer as Detection Mechanism for Development of a Fiber Optic Based Chemical Sensor", (2007), PI, Widener Faculty Development Award, \$3,264.
- "Multi-Regional Reactive Transport Due to Strong Anisotropy in Unsaturated Soils with Evolving Scales of Heterogeneity," (2003-2004), Sponsor: DOE Solicitation: DE-FG07-02ER63512, Research Associate, \$279,997 + \$52,000 (Match).
- "Development of a Model Health Monitoring Guide For Major Bridges," (2001-2002), Co-PI, Sponsor: FWA, \$50,000.
- "Investigative Studies for Performance Evaluation and Condition Assessment of the Commodore Barry Bridge," (1998 – 2002), Sponsor: Delaware River Port Authority of PA and NJ (DRPA), Senior Researcher, \$1,050,000 (Phase I), \$1,562,283 (Phase II).

Faculty Workshop and Travel Grants

- Invited faculty participant to North American Tunneling (NAT) 2018 Conference and Faculty Workshop, Washington DC, June 24-27, 2018
- Participated in, Experimental Techniques for Dynamic Testing, Structural Dynamics Research Laboratories (SDRL), University of Cincinnati, August 8-15, 2012
- Participated in, Analysis of Geotechnical Problems with ABAQUS, September, 26-28, 2011
- Invited to, First University Professors Workshop on Sheet Piling, Sponsor: Skyline Steel, Penn State University, September, 7-8, 2011
- Participated in, Applied Soil Mechanics with ABAQUS, Spring 2010 (8 week online course)

- Invited to, ADSC Faculty Workshop on Drilled Shafts, Sponsor: The International Association of Foundation Drilling, Tennessee, June, 8-14, 2008
- Participated in, ASCE Workshop on Finite Elements in Geotechnical Engineering, Philadelphia, March 2008 (2 day course work)
- Participated in, Delaware Valley Geotechnical Institute (DVGI), monthly meetings and technical presentations

Presentations

1. Anastasio, S., Pamukcu, S., and *Pervizpour, M.*, (2007), “BOTDR for Detection of Chemical and Liquid Content”, Paper presented at ASCE 7th FMGM’s 2007 International Symposium on Field Measurements in Geomechanics, September 24-27, 2007, and published in the ASCE Conference Proceedings, Boston, MA.
2. *Pervizpour, M.*, (for Comfort, L.K.), (2001), “Information Management for Complex Dynamic Systems, Paper presented at SPIE’s 6th International Symposium on NDE for Health Monitoring and Diagnostics, 4-8 march, 2001, and published in the SPIE Conference Proceedings, Newport Beach.
3. *Pervizpour, M.*, Pamukcu, S. (June 13-16, 1999), “Prediction of Phenomenological Coefficients of Coupled Flow at Transient State”, Proceedings of 13th ASCE Engineering Mechanics Division Conference, Baltimore.
4. *Pervizpour, M.* and Pamukcu, S. (July 9-12, 1995), “Effect of Thermal Gradient on Soil-Water System”, Proceedings of 27th Mid-Atlantic Industrial and Hazardous Waste Conference, Bethlehem, Pennsylvania.
5. *Pervizpour, M.* and Pamukcu S. (May 22-28, 1994), “Application of Non-destructive Conduction Testing For Constant Thermal Gradient in Porous Medium”, Proceedings of 8th International Conference of the Association for Computer Methods and Advances in Geomechanics, Morgantown, West Virginia.
6. *Pervizpour, M.* and Pamukcu, S. (August 23-28, 1993), “The Effect of Thermally Influenced Volume Change on Transport Phenomenon in Saturated Porous Medium”, The 24th Annual Meeting of The Fine Particle Society and First International Conference on Pharmaceutical Sciences and Technology, Chicago, Illinois.

Other Professional Activities Related to Position

Undergraduate Student Publications and Presentations

- Mersky, A., Pervizpour, M. (April 11-13, 2013), “Study of Spherical Hydrogel Swelling Kinetics and Stress-Strain Relationships,” Proceedings of the 27th National Conference on Undergraduate Research (NCUR 2013), University of Wisconsin-La Crosse, Wisconsin. NCUR-2013 Conference Presentation.
- Romano, J.H, and Miller, K.: (February 21, 2012), “Nondestructive Determination of Small Strain Elastic Properties of Oil-based Clay by Ultrasonic Wave Transmission Methods”, American Society of Civil Engineers (ASCE), Delaware Valley Geotechnical Institute (DVGI), Student Night Research Presentation.
- Erceg, M., Merskey, A., Harnden, J.: (February 21, 2012), “Image Processing and Impact Stress Distribution Measurements during Ball Drop Tests for Determination of Dynamic Material Properties of Oil-Based Clays”, American Society of Civil Engineers (ASCE), Delaware Valley Geotechnical Institute (DVGI), Student Night Research Presentation.

- Erceg, M., Mueller, I.: (February 21, 2012), “Vibration Induced Densification and Liquefaction Study and Remediation of Granular Soils”, American Society of Civil Engineers (ASCE), Delaware Valley Geotechnical Institute (DVGI), Student Night Research Presentation.
- Zwissler, B., Salisbury, G., Brown, K., Miller, R.: (February 2011), MSE-wall Design for National Competition, ASCE-DVGI, Student Night Presentation.
- Franceshina, M., (April 10-12, 2008), “Swelling Response of Polymer Jacket for Chemical Sensing Optic Brillouin Sensor”, Proceedings of the National Conference On Undergraduate Research (NCUR 2008), Salisbury University, Salisbury-Maryland. NCUR-2008 Conference Presentation.

Undergraduate Student Achievements:

- Senior Project Team of Four Undergraduates, National MSE-Wall Geo-Competition 2012 (Qualified/participated in ASCE Geo-Conference 2012).
- Undergraduate Team of Two, National Geo-Prediction Competition 2012 (Qualified/participated in ASCE Geo-Conference 2012).
- Senior Project Team of Four Undergraduates, National MSE-Wall Geo-competition 2011, (\$2,000 3rd place in Design, 6th in Construction)

Undergraduate Research Advising:

- Avi Mersky, Junior/Senior, Civil Engineering Department, Summer 2011 – 2013.
- Kevin Gilroy, Sophomore, Chemical Engineering Department, Spring 2012.
- Gregory Hoffer, Sophomore, Chemical Engineering Department, Spring 2012.
- Michael Erceg, Junior, Civil Engineering, Summer 2011 – Summer 2012.
- Matthew Jackson, Senior, Civil Engineering, Fall 2011.
- Emily Shumaker, Senior, Civil Engineering, Fall 2011.
- Ian Mueller, Senior, Civil Engineering, Fall 2011 – present.
- Jennifer Harnden, Civil Engineering, Fall 2011 – present.
- James Romano, Senior, Civil Engineering, Spring 2011 – present.
- Kalena Miller, Senior, Civil Engineering, Spring 2011 – present.
- Mary Krueger, Junior/Senior, Civil Engineering, Summer 2009 – Spring 2010.
- Gordon Salisbury, Senior, Civil Engineering, Fall 2009.
- Kevin Martin, Senior, Civil Engineering, Fall 2009.
- Michael Franceschina, Senior Civil Engineering, Fall 2007 – Spring 2008.
- Renee Roberts, Senior, Civil Engineering, Spring 2005.

Master’s Thesis Advising:

- Carlos Medina, M.S. Civil Engineering, Lehigh University, Co-advisor, (2011)
- Mark McElroy, M.S. Civil Engineering, Lehigh University, Co-advisor, (2007)
- Steven Anastasio, M.S. Civil Engineering, Lehigh University, Co-advisor, (2007)
- Vikrant Shanghai, M.S. Civil Engineering, Widener University, (2006)

Doctoral Thesis Committees:

- Yi Dong, Ph.D. Candidate, Lehigh University, Committee Member, (2012)
- Ehsan Ghazanfari, Ph.D. Candidate, Lehigh University, Committee Member, (2013)
- Lusu Ni, Ph.D. Candidate, Lehigh University, Ph.D. Committee Member, (2014)

- Suguang Xiao, Ph.D. Candidate, Lehigh University, Ph.D. Committee Member (Expected 2017)
- Kepha Abong, O, Ph.D. Candidate, Lehigh University, Ph.D. Committee Member (Expected 2017)

D. Service

Service at Lehigh University

Service to University

- Graduation Commencement Marshal (2016)

Service to School of Engineering

- Chemical Engineering Dept., Faculty Search Committee Member, (2014)
- Freshman Advisor, (2014 – present)
- Envisioning Team for Engineering Education Member, 1st Year Experience (2016 – present)

Service to CEE Department

- CEE Department ABET Committee Chair (2014- 2017)
- Responsible for CEE Department ABET 2019 Cycle Report
- Undergraduate Curriculum Committee Member (2013-present)
- ASCE Student Chapter Advisor (2013-present)
- Construction Management Organization (CMO) Student Chapter Advisor (2017-present)
- The Moles, Department Rep. (2013-present)

Service at Previous Institution (Widener University)

- Member, Faculty Council, Grants and Awards (Fall 2007 – 2012)
- Alternate, Faculty Council Standing Committee (Fall 2007 – 2011)
- Member, Learning Management System (LMS) Task Force (Fall 2007 – 2012)
- Member, General Education Task Force, (Fall 2010 – 2012)
- Graduate Committee, (Chair Fall 2007 – Fall 2010, Member Spring 2011)
- Member, Academic Review Committee (2006 – 2011)
- Department Representative, Mouse Trap Competition (2004 – 2012)
- Instructor Engineering Camps, (Mini-camp, Summer camp, FE review) (2004 – 2011)
- Civil Engineering Department ABET Review Committee (2006 – 2009)
- Faculty Marshal, and Freshman Convocations (2006 – 2012)
- Graduate Advisor (2007 – 2011)
- Freshman Advisor (2004 2006, 2007 – 2009)
- Undergraduate Advisor (2006-2007, 2009 – 2012)
- Undergraduate Research Advisor to 11 students
- M.S. Thesis Committees, Chair (1), Member (3)

Professional Community

- Member, American Society of Civil Engineers (ASCE)

- Member, ASTM Committees D18, D35, E07, 2007-2010
- Member, International Association of Foundation Drilling (ADSC)
- Board Member/Academic Liaison Officer, Delaware Valley Geotechnical Institute (DVGI)
- Member and Widener Representative, Transportation Research Board (TRB)
- Reviewer, Journal of Geotechnical and Geoenvironmental Engineering, ASCE
- Reviewer, National Science Foundation Proposal Programs:
 - Major Research Instrumentation
 - Division of Civil and Manufacturing Innovation (Geotechnical – II Engineering)
- Co-advisor, Mr. Mark McElroy, MS. CE, Lehigh University, December 2007
- Co-advisor, Mr. Steven Anastasio, MS. CE, Lehigh University, August 2007
- Co-advisor, Mr. Carlos Medina, MS. CE, Lehigh University, 2011
- Dissertation Comm. Member, Mr. Yi Dong, Ph.D., Lehigh University, 2012
- Dissertation Comm. Member, Mr. Ehsan Ghazanfari, Ph.D., Lehigh University, 2013
- Dissertation Comm. Member, Mr. Lusu Ni, Ph.D., Lehigh University, 2014
- Dissertation Comm. Member, Mr. Suguang Xiao, Ph.D., Lehigh University, 2015
- Dissertation Comm. Member, Mr. Kephah Abong'O, Ph.D., Lehigh University, 2018
- Dissertation Comm. Member, Ms. Rehab Elzeiny, Ph.D., Lehigh University, Current