Lafayette College 730 High Street, Easton PA, 18042 610-330-5218

bertuccm@lafayette.edu https://sites.lafayette.edu/bertuccm

EDUCATION

The University of North Carolina at Chapel Hill

Chapel Hill, NC August 2014

Ph.D. Organic Chemistry

Advisor: Prof. Michel R. Gagné

Thesis: Synthetic Agents for the Derivatization of N-Acyl Homoserine Lactones

Stevens Institute of Technology

Hoboken, NJ

B.S. Chemical Biology (4.0 GPA), Minor in Social Sciences

May 2009

TEACHING EXPERIENCE

2015 – 2021 Assistant Professor, Moravian College (Tenure Granted - April 2021)

Courses Taught: Organic Chemistry I; Organic Chemistry I Laboratory; Organic Chemistry II; Organic Chemistry II Laboratory; Bioorganic & Medicinal Chemistry; Synthetic Organic Chemistry; Senior Seminar in Chemistry & Biochemistry

2014 - 2015 Visiting Assistant Professor, Hartwick College

Courses Taught: Organic Chemistry I; Organic Chemistry II Laboratory; General Chemistry I, Organic

Chemistry II; General Chemistry II Lab; General, Organic, and Biological Chemistry

2009 – 2013 Teaching Assistant, The University of North Carolina at Chapel Hill

Spring 2013 Organic Chemistry II Laboratory
Spring 2010 General Chemistry II Laboratory
Fall 2009 General Chemistry II Laboratory

Fall 2013 Instructor, Issues in Modern Biology, The University of North Carolina at Chapel Hill

Team-taught course in collaboration with four biology graduate students

2012 – 2013 Lecturer, Moldova AID, The University of North Carolina at Chapel Hill

Held Skype lectures on the impact of chemistry to Master's students at Moldova State University

Spring 2012 Chemistry & Renewable Energy

Spring 2013 The Maillard Reaction & the Chemistry of Food

RESEARCH EXPERIENCE

2015 – present Independent Scholarship, Lafayette College (*Current Advisee)

Structure-activity relationships between hydrophobic residues on CSP-1 and quorum sensing in *Streptococcus pneumoniae*

Collaborator: Dr. Yftah Tal-Gan (University of Nevada, Reno)

Undergraduate Advisees: Elizabeth Hutnick, Naomi Rieth, Alec Buttner, Emilee Engler, Kylie Chichura, Robert Hillman, Michelle Pomposello, Erin Tiwold

Investigating structure-activity relationships in LamD, the cyclic peptide autoinducer responsible for regulating quorum sensing in *Lactobacillus plantarum*

Undergraduate Advisees: Gabe Chlebove, Naomi Rieth, Fadi Hanna, Ashlyn Cantrel, Jonathan Nadraws, Jonathan Le

Exploring the impact of alanine scanning, N-methylation & cyclization of the peptide autoinducer PapR₇ on *Bacillus cereus* quorum sensing

Collaborator: Dr. Zvi Hayouka (The Hebrew University of Jerusalem)
Undergraduate Advisees: Emilee Engler, Elizabeth Hutnick, Jessica Lynch

Understanding electronic interactions that manipulate degradation rates of the native signaling molecules

in gram-negative bacterial communication

Undergraduate Advisees: Daniel Schmucker, Sydney Dunbar

June - Aug 2021 Visiting Scholar, Department of Chemistry, Unversity of Nevada, Reno

Collaborator: Prof. Yftah Tal-Gan

Prepared reporter strains for quorum sensing SAR studies in L. plantarum and S. gordonii

July 2019 Visiting Scholar, The Robert H. Smith Faculty of Agriculture, Food & Environment, The Hebrew University of Jerusalem

Collaborator: Prof. Zvi Hayouka

Investigated the impact of N-methyl and cyclic variants of the signaling peptide PapR7 on quorum sensing in *Bacillus cereus* while learning protein purification and assays for bacteria-induced hemolysis

2014 – 2015 Independent Scholarship, Hartwick College

Undergraduate Advisees: Sydney Dunbar, Kareem March

Developed and mentored undergraduate-focused research projects integrating organic synthesis,

bioorganic chemistry and microbiology to design small molecules and peptides capable of bacterial quorum sensing and biofilm inhibition.

2009 – 2014 Doctoral Research, The University of North Carolina at Chapel Hill

Advisor: Prof. Michel R. Gagné

Thesis: Synthetic Agents for the Derivatization of N-Acyl Homoserine Lactones.

Employed methods of synthetic chemistry, peptide chemistry, combinatorial chemistry, and microbiology to develop synthetic agents for the functionalization of *N*-acyl homoserine lactones, chemical messengers in bacterial quorum sensing.

2007 – 2009 Undergraduate Research, Stevens Institute of Technology

Advisor: Prof. A. K. Ganguly

Utilized synthetic chemistry to develop enantioselective methods for the assembly of spirooxindoles, necessary precursors in the synthesis of Horsifiline analogs.

2008 Merck Future Talent Program, Merck Research Laboratories

Advisor: Dr. Ramzi Sweis

Employed methods of synthetic and medicinal chemistry to develop novel inhibitors of HDL cholesterol reducing enzymes.

PUBLICATIONS (*undergraduate scientist)

Milly, T. A., Engler, E. R.*, Chichura, K. S.*, Buttner, A. R.*, Koirala, B., Tal-Gan, Y., **Bertucci, M. A.** Optimizing CSP:ComD binding interactions by assessing the steric limitations of the ComD receptor in group1 *Streptococcus pneumoniae*. *ChemBioChem*, **2021**, *11* (22), 1940 - 1947

Bertucci, M.A. and Smith, K.J., The future of peptide science: Recognizing the American Peptide Society's Young Investigators. *Peptide Science*, **2020** 112: e24211.

Schmucker, D. J.*, Dunbar, S. R.*, Shepherd, T. D., **Bertucci, M.A.** n $\rightarrow \pi^*$ Interactions in N-Acyl Homoserine Lactone (AHL) Derivatives and Their Effects on Hydrolysis Rates. *J. Phys. Chem. A.*, **2019**, *123* (13), 2537 - 2543.

Koirala, B., Hillman, R. A.*, Tiwold, E. K.*, **Bertucci, M. A.,** Tal-Gan, Y., Defining the Hydrophobic Interactions that Drive Competence Stimulating Peptide (CSP):ComD Binding in Streptococcus pneumoniae. *Beilstein J. Org. Chem.*, **2018**, *14*, 1769 - 1777.

Hillman, R. A.*, Nadraws, J. W.*, Bertucci, M. A. The Hydrocarbon Staple & Beyond: Recent Advanced Towards Stapled Peptide Therapeutics that Target Protein-Protein Interactions. Curr. Top. Med. Chem., 2018, 18, 611 – 624.

Bertucci, M. A. and March, K.*, Non-Natural D-Amino Acids to Control Bacterial Virulence. Proceedings of the 24th American *Peptide Symposium*, **2015**, 51 – 53.

Bertucci, M. A., Lee, S. J., Gagné, M. R., Selective Transamidation of 3-oxo-N-Acyl Homoserine Lactones by Hydrazine Derivatives. Org. Biomol. Chem., 2014, 12, 7197 - 7200.

Bertucci, M. A., Lee, S. J., Gagné, M. R., Thiourea-catalyzed aminolysis of N-acyl homoserine lactones. Chem. Commun., 2013, 49, 2055-2057.

Alluri, S. S.; Wang, C.; Bertucci, M. A Novel Enantioselective Synthesis of Spiro-Oxindoles: Analogs of Horsifiline and Spirotryprostatin. Saarbrücken: Lambert Academic Publishing, 2010.

GRANTS 2021

2021	National Science Foundation (NSF) "CAREER: Designing Quorum Sensing Modulators for Lactobacillus plantarum to
	Probe Interspecies and Host-Microbe Interactions" 5/2021 – 4/2026, \$496,758
2020	Student Opportunities for Academic Research (SOAR) Grant for Elizabeth Hutnick & Naomi Rieth
2019	Student Opportunities for Academic Research (SOAR) Grant for Emilee Engler & Alec Buttner
2019	Pennsylvania Academy of Sciences (PAS) Research Grant
2018	National Science Foundation (NSF) "Chemical Biology Approaches to Interrogate Interspecies Communication in
	Streptococci" (PI: Yftah Tal-Gan) Participant Support for Moravian College-University of Nevada, Reno Student
	Exchange Program, 6/2018 – 5/2021, \$19,500
2018	Student Opportunities for Academic Research (SOAR) Grant for Kylie Chichura

- 2017 Student Opportunities for Academic Research (SOAR) Grant for Jonathan Nadraws
- 2017 Student Opportunities for Academic Research (SOAR) Grant for Robert Hillman
- 2016 LVAIC Teagle Hybrid Learning Collaborative Grant for Medicinal Chemistry Course Development
- 2016 Student Opportunities for Academic Research (SOAR) Grant for Erin Tiwold
- 2016 Student Opportunities for Academic Research (SOAR) Grant for Jessica Lynch
- 2015 The Rochester Academy of Science, Inc. Student Research Grant for Kareem March
- 2014 Hartwick College Faculty Research Grant

PRESENTATIONS (*undergraduate scientist, presenter in bold)

Bertucci, M. A., "Instruction through human simulation in undergraduate organic chemistry" Biennial Conference on Chemical Education (BCCE), Poster Presentation (cancelled due to COVID-19), 2020.

Schmucker, D. J.*, Dunbar, S. R.*, Shepherd, T. D., **Bertucci, M. A.**, "Assessing the influence of $n \to \pi^*$ interactions on hydrolysis rates of n-acyl homoserine lactone derivatives" 259th American Chemical Society National Meeting and Exposition, Oral Presentation (online due to COVID-19), 2020.

Engler, E.*, Buttner, A. R.*, Milly, T., Chichura, K.*, Tal-Gan, Y., Bertucci, M. A. "Quorum sensing inhibition in Streptococcus pneumoniae using optimized CSP1 modifications including a key E1A substitution" 259th American Chemical Society National Meeting and Exposition, Poster Presentation (online due to COVID-19), 2020.

Buttner, A.R.*, Engler, E.*, Milly, T., Chichura, K.*, Tal-Gan, Y., Bertucci, M. A. "Synthesis of an inhibitory peptide for quorum sensing in Streptococcus pneumoniae through optimization of the hydrophobic binding face and substitution of the Nterminus residue" 259th American Chemical Society National Meeting and Exposition, Poster Presentation (online due to COVID-19), 2020.

Koirala, B., Hillman, R. A.*, Tiwold, E. K.*, Chichura, K.*, Tal-Gan, Y., Bertucci, M. A. "Assessing the Role of Hydrophobic Interactions in Competence Stimulating Peptide (CSP)-ComD Binding in Streptococcus pneumoniae" 26th American Peptide Symposium, Poster Presentation, 2019.

- Hillman, R. A.*, Tiwold, E. K.*, Koirala, B., Tal-Gan, Y., **Bertucci, M. A.** "Remodeling the hydrophobic face of CSP-1, a peptide autoinducer for quorum sensing in *Streptococcus pneumoniae*" 256th American Chemical Society National Meeting and Exposition, Oral Presentation, 2018.
- **Chichura, K. S.***, Koirala, B., Tal-Gan, Y., Bertucci, M. A. "Effects of multiple amino acid mutations of a key quorum sensing peptide, CSP-1" 256th American Chemical Society National Meeting and Exposition, Poster Presentation, 2018.
- **Cantrel, A. S.*,** Bertucci, M. A. "Synthesis of lactam derivatives of LamD, a cyclic signaling peptide of *Lactobacillus plantarum*" 256th American Chemical Society National Meeting and Exposition, Poster Presentation, 2018.
- Schmucker, D. J.*, Dunbar, S. R., **Bertucci, M. A.** "Experimental evidence of a stabilizing $n \rightarrow \pi^*$ interaction in N-acyl homoserine lactone (AHL) hydrolysis" 254th American Chemical Society National Meeting and Exposition, Oral Presentation, 2017.
- **Hillman, R. A.***, Tal-Gan, Y., Bertucci, M. A. "Effects of modifying carbon number and structure of hydrophobic amino acid residues on CSP-1, a key quorum sensing peptide in *S. pneumoniae*" 254th American Chemical Society National Meeting and Exposition, Poster Presentation, 2017.
- **Nadraws, J.***, Le, J., Bertucci, M. A. "Optimizing cyclization of LamD derivatives in preparation for bioassays of *Lactobacillus plantarum*" 254th American Chemical Society National Meeting and Exposition, Poster Presentation, 2017.
- Tiwold, E.*, Le, J.*, Tal-Gan, Y., **Bertucci, M. A.**, "Establishing SARs in gram-positive symbiotes & pathogens to develop quorum sensing modulators" 25th American Peptide Symposium, Poster Presentation, Biologically Active Peptides, 2017.
- **Young, S. C.**, Staretz-Greenfield, M. E., Mayville, F. C., Husic, H. D., **Heindel, N. D.**, Bertucci, M. A., "Development and evaluation of a team-taught online course in medicinal chemistry" 45th Middle Atlantic Regional Meeting of the American Chemical Society, Oral Presentation, 2017.
- **Bertucci, M. A.**, Schmucker, D.*, Dunbar, S. R.*, Le, J.* "Determining the impact of a hypothesized $n \rightarrow \pi^*$ interaction on hydrolysis rates of N-acyl homoserine lactones" 252nd American Chemical Society National Meeting and Exposition, Poster Presentation, 2016.
- **Lynch, J. K.***, Bertucci, M. A. "Establishing preliminary relationships between peptide structure and quorum sensing activity in *Bacillus cereus*" 252nd American Chemical Society National Meeting and Exposition, Poster Presentation, 2016.
- **Tiwold, E.***, Bertucci, M. A. "Manipulating signal hydrophobicity to alter quorum sensing in *Streptococcus pneumoniae*" 252nd American Chemical Society National Meeting and Exposition, Poster Presentation, 2016.
- **Schmucker, D.*,** and Bertucci, M. A. "Manipulating the $n \rightarrow \pi^*$ orbital interaction in N-acyl homoserine lactones (AHLs) and its effects on hydrolysis rates" *National Council on Undergraduate Research (NCUR)*, Poster Presentation, 2016.
- **Bertucci, M. A.** and March, K.*, "Amino acids & peptides to control bacterial virulence." 24th American Peptide Symposium, Poster Presentation, Biologically Active Peptides, 2015.
- **Bertucci, M. A.**, Dunbar, S. R.*, and March, K.* "Synthetic approaches to controlling bacterial virulence." 249th American Chemical Society National Meeting and Exposition, Poster Presentation, Division of Organic Chemistry, 2015.
- **Dunbar, S. R.*** and Bertucci, M. A. "Manipulation of n to π^* orbital interactions in the hydrolysis of para-substituted N-acyl homoserine lactones." 249th American Chemical Society National Meeting and Exposition, Poster Presentation, 2015.
- **March, K.*** and Bertucci, M. A. "Purposeful biofilm disassembly with unnatural alkyl and aromatic D-amino acids." 249th American Chemical Society National Meeting and Exposition, Poster Presentation, 2015.
- **Bertucci, M. A.**, Waters, M. L., and Gagné, M. R., "Intramolecular amide cleavage of 3-oxo-N-acyl homoserine lactones by hydrazine-containing peptides." Gordon Research Seminar, Chemistry & Biology of Peptides, Oral Presentation, 2014.

- **Bertucci, M. A.**, Waters, M. L., and Gagné, M. R., "Intramolecular amide cleavage of 3-oxo-N-acyl homoserine lactones by hydrazine-containing peptides." Gordon Research Conference, Chemistry & Biology of Peptides, Poster Presentation, 2014.
- **Bertucci, M. A.** and Gagné, M. R., "Deactivating 3-oxo-N-acyl homoserine lactones with quorum quenching peptides." 244th American Chemical Society National Meeting and Exposition, Poster Presentation, Division of Organic Chemistry, 2013
- **Bertucci, M. A.** and Gagné, M. R., "Thiourea-catalyzed aminolysis of N-acyl homoserine lactones." Southeastern Regional Meeting of the American Chemical Society, Poster Presentation, 2012.
- **Bertucci, M. A.** and Gagné, M. R., "Thiourea-catalyzed aminolysis of N-acyl homoserine lactones." North Carolina American Chemical Society, Poster Presentation, 2012.
- **Bertucci, M. A.** and Gagné, M. R., "Combinatorial development of peptide-based nucleophiles for *N*-acyl homoserine lactone aminolysis." North Carolina American Chemical Society, Poster Presentation (1st Place), 2011.
- **Bertucci, M. A.** and Gagné, M. R., "Towards quorum quenching via catalyzed lactonolysis." The University of North Carolina at Chapel Hill University Research Day, Poster Presentation, 2011.

INVITED LECTURES

- "Assessing the Impact of Peptide Structure on Quorum Sensing Activity in *Streptococcus pneumoniae* and *Lactobacillus plantarum*," **The Hebrew University of Jerusalem**, Faculty of Agriculture, Food & Environment (Rehovot, Israel) July 25, 2019
- "Approaches to Understanding the Chemistry Behind Bacterial Communication," Rowan University (Glassboro, NJ) September 20, 2017
- "Manipulating Electronic Interactions to Degrade Signaling Molecules in Bacterial Communication," Faculty Luncheon Seminar Series, **Moravian College** (Bethlehem, PA) February 27, 2016.
- "Synthetic Strategies to Control Bacterial Virulence," Trinity College (Hartford, CT) March 6, 2015.
- "Optimizing Clickers in the Classroom," Hartwick College (Oneonta, NY) February 19, 2015.
- "Graduate Student Governance & the American University," University of York (York, UK) July 14, 2012.

CONSULTING

Present BioSpectra, Inc. (Bangor, PA)

AWARDS & FELLOWSHIPS

2017	ODK Goldon	Annla Award for	Excellence in Teaching
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- 2014 NIH Institutional Research and Academic Career Development Award (IRACDA) (offered)
- 2013 UNC Center for Faculty Excellence Future Faculty Fellow
- 2013 American Chemical Society Coaches Program
- 2009 Francis P. Venable Fellowship in Chemistry
- 2009 Stevens Class of 2009 Valedictorian
- 2009 The Priestley Prize for Excellence in Chemistry
- 2009 CoSIDA Academic All-American
- 2008 CoSIDA Academic All-American
- 2008 Novartis Science Scholar
- 2006 CRC Press Chemistry Achievement Award

DISCIPLINE, INSTITUTIONAL & COMMUNITY SERVICE

2016 – Present	Judge, Pennsylvania Junior Academy of Science (PJAS) Competition
2020	Guest Editor, Peptide Science (Special Issue on Young Investigators)

2020 Reviewer, Chemical Science

Reviewer, RSC Chemical Biology

2020

2020	Reviewer, RSC Medicinal Chemistry
2019	Reviewer, ACS Chemical Biology
2020	Reviewer, ACS Infectious Disease
2017 & 2018	Reviewer, Current Topics in Medicinal Chemistry
2017 & 2018	Reviewer, Molecules
2017	Chair of "Biologically Active Molecules & Processes" session at 254th National Meeting of the American
	Chemical Society
2017	Judge, American Peptide Society Young Investigator Competition
2020 – 2021	Member, Moravian College 5-Year Strategic Planning Team
2019 – 2021	Moravian Faculty Marshal
2018 – 2020	Member, Moravian Academic Planning & Program Committee (APPC)
2017 – 2021	Co-Chair, Moravian Faculty Luncheon Speaker Series
2017 – 2021	Member, Moravian Intellectual Property Policy Task Force
2016 – 2021	Chair, Moravian Arts & Lectures Committee
2016 – 2021	Faculty Mentor, Moravian Women's Volleyball
2016 – 2021	Faculty Advisor & Chapter Counselor, Sigma Phi Epsilon Fraternity
2019	Member, Search Committee (Associate Director of Residence Life & Greek Life)
2019	Member, Search Committee (Director of Academic Support)
2017 – 2018	Member, Honors Committee
2016 – 2018	Member, Discipline Review Committee
2018	Member, Faculty Search Committee (Biology)
2017	Member, Faculty Search Committee (Public Health)
2017	Member, Faculty Search Committee (Master of Athletic Training)
PROFESSIONAL	MEMBERSHIPS & LEADERSHIP ROLES
	MEMBERSHIPS & LEADERSHIP ROLES American Pentide Society (APS)
PROFESSIONAL Present	American Peptide Society (APS)
	American Peptide Society (APS) Student Activities Committee (SAC) Co-Chair
	American Peptide Society (APS) Student Activities Committee (SAC) Co-Chair Nominating Committee Member
Present	American Peptide Society (APS) Student Activities Committee (SAC) Co-Chair Nominating Committee Member Diversity, Equity & Inclusion (DEI) Committee Member
Present	American Peptide Society (APS) Student Activities Committee (SAC) Co-Chair Nominating Committee Member Diversity, Equity & Inclusion (DEI) Committee Member Member & Organic Scholarship Exam Coordinator, Lehigh Valley American Chemical Society (LVACS)
Present	American Peptide Society (APS) Student Activities Committee (SAC) Co-Chair Nominating Committee Member Diversity, Equity & Inclusion (DEI) Committee Member
Present	American Peptide Society (APS) Student Activities Committee (SAC) Co-Chair Nominating Committee Member Diversity, Equity & Inclusion (DEI) Committee Member Member & Organic Scholarship Exam Coordinator, Lehigh Valley American Chemical Society (LVACS) Selected Participant, Lehigh Valley Association of Independent Colleges (LVAIC) Higher Education Leaders Institute
Present Present Present	American Peptide Society (APS) Student Activities Committee (SAC) Co-Chair Nominating Committee Member Diversity, Equity & Inclusion (DEI) Committee Member Member & Organic Scholarship Exam Coordinator, Lehigh Valley American Chemical Society (LVACS) Selected Participant, Lehigh Valley Association of Independent Colleges (LVAIC) Higher Education Leaders Institute Member, American Chemical Society (ACS)
Present Present Present Present	American Peptide Society (APS) Student Activities Committee (SAC) Co-Chair Nominating Committee Member Diversity, Equity & Inclusion (DEI) Committee Member Member & Organic Scholarship Exam Coordinator, Lehigh Valley American Chemical Society (LVACS) Selected Participant, Lehigh Valley Association of Independent Colleges (LVAIC) Higher Education Leaders Institute Member, American Chemical Society (ACS) Member, Pennsylvania Academy of Science (PAS)
Present Present Present Present Present	American Peptide Society (APS) Student Activities Committee (SAC) Co-Chair Nominating Committee Member Diversity, Equity & Inclusion (DEI) Committee Member Member & Organic Scholarship Exam Coordinator, Lehigh Valley American Chemical Society (LVACS) Selected Participant, Lehigh Valley Association of Independent Colleges (LVAIC) Higher Education Leaders Institute Member, American Chemical Society (ACS) Member, Pennsylvania Academy of Science (PAS) Argonaut, UNC Order of the Golden Fleece
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Present Present Present Present Present Present 2015 - 2017 2015 2012 - 2014	American Peptide Society (APS) Student Activities Committee (SAC) Co-Chair Nominating Committee Member Diversity, Equity & Inclusion (DEI) Committee Member Member & Organic Scholarship Exam Coordinator, Lehigh Valley American Chemical Society (LVACS) Selected Participant, Lehigh Valley Association of Independent Colleges (LVAIC) Higher Education Leaders Institute Member, American Chemical Society (ACS) Member, Pennsylvania Academy of Science (PAS) Argonaut, UNC Order of the Golden Fleece Volunteer Assistant Coach, Lehigh University Women's Volleyball Volunteer Assistant Coach, Hartwick College Women's Volleyball President, Frank Porter Graham Graduate Honor Society President, Chief of Staff, Transportation & Safety Chair, Graduate School Orientation Chair, UNC Graduate & Professional Student Federation (GPSF); University Committee Appointments: Applied Sciences Committee,
Present Present Present Present Present Present 2015 - 2017 2015 2012 - 2014	American Peptide Society (APS) Student Activities Committee (SAC) Co-Chair Nominating Committee Member Diversity, Equity & Inclusion (DEI) Committee Member Member & Organic Scholarship Exam Coordinator, Lehigh Valley American Chemical Society (LVACS) Selected Participant, Lehigh Valley Association of Independent Colleges (LVAIC) Higher Education Leaders Institute Member, American Chemical Society (ACS) Member, Pennsylvania Academy of Science (PAS) Argonaut, UNC Order of the Golden Fleece Volunteer Assistant Coach, Lehigh University Women's Volleyball Volunteer Assistant Coach, Hartwick College Women's Volleyball President, Frank Porter Graham Graduate Honor Society President, Chief of Staff, Transportation & Safety Chair, Graduate School Orientation Chair, UNC Graduate &
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Present Present Present Present Present Present 2015 - 2017 2015 2012 - 2014 2010 - 2014	American Peptide Society (APS) Student Activities Committee (SAC) Co-Chair Nominating Committee Member Diversity, Equity & Inclusion (DEI) Committee Member Member & Organic Scholarship Exam Coordinator, Lehigh Valley American Chemical Society (LVACS) Selected Participant, Lehigh Valley Association of Independent Colleges (LVAIC) Higher Education Leaders Institute Member, American Chemical Society (ACS) Member, Pennsylvania Academy of Science (PAS) Argonaut, UNC Order of the Golden Fleece Volunteer Assistant Coach, Lehigh University Women's Volleyball Volunteer Assistant Coach, Hartwick College Women's Volleyball President, Frank Porter Graham Graduate Honor Society President, Chief of Staff, Transportation & Safety Chair, Graduate School Orientation Chair, UNC Graduate & Professional Student Federation (GPSF); University Committee Appointments: Applied Sciences Committee, Chancellor Search Committee, Dean of the Grad School Review Committee, Tuition & Fees Advisory Task Force, Student Fee Advisory Subcommittee, Student Fee Audit Committee, Student Grievance Committee, Chancellor's Advisory Committee on Transportation
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