

Anne M. Brown, Ph.D.

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EDUCATION

Ph.D., Biochemistry (August 2011-May 2016)

Academic Institution: Virginia Polytechnic Institute and State University

Dissertation: Insights into Mechanisms of Amyloid Toxicity: Molecular Dynamics Simulations of the Amyloid β -peptide ($A\beta$) and Islet Amyloid Polypeptide (IAPP). Advisor: Dr. D.R. Bevan

Graduate Certificate in Preparing the Future Professoriate

Graduate Certificate in Gerontology

Graduate Certificate in Research in Translational Medicine

B.S., Biochemistry, Physics (cum laude) (August 2006-May 2010)

Academic Institution: Roanoke College

PROFESSIONAL APPOINTMENTS

Data and Informatics Consultant, Sciences (06/2016 – Present)

Academic Institution: Research and Informatics, University Libraries, Virginia Polytechnic and State University

Research focus: My role is to collaborate with faculty and students on the integration of computational thinking and discipline-specific computational tools into their research labs and classrooms. I also continue to pursue my own research agenda involving molecular dynamics simulations and *in silico* drug discovery, targeting proteins involved in neurodegenerative disease and working to better understand protein structure-function relationships. I am also involved in the training and mentorship of undergraduate research students in these areas.

Adjunct Faculty, Department of Biochemistry (11/2016 – Present)

Academic Institution: Virginia Polytechnic and State University

AWARDS AND HONORS

2017	Virginia Tech Favorite Faculty
2016	NACTA Graduate Student Teaching Award of Merit Certificate
2015	Virginia Tech Illuminator Award
2015	Associate, VT Academy of Graduate Teaching Assistant Excellence
2015	Virginia Tech Graduate School Outstanding Graduate Student Service Excellence Award
2015	Kamal M. Abdo Memorial Endowment Travel Award
2015	VT Dept. of Biochemistry Kendall W. King Memorial Scholarship - outstanding senior graduate student
2014	VT Center for Gerontology S.J. Ritchey Award for research focuses in the area of aging
2014	Virginia Tech Citizen Scholar Award
2013-2016	Virginia Tech CALS Graduate Teaching Scholar Fellowship
2013	Best Score Poster Presentation, VT 29 th Annual Graduate Student Research Symposium
2012	1 st Place poster, 2 nd Annual Virginia Tech Symposium on Vector-Borne Disease Research
2010	James Lewis Howe Award, outstanding senior in Biochemistry awarded by the Blue Ridge Section of the American Chemical Society
2008	Roanoke College Summer Scholar
2006-2010	Dean's List

TEACHING EXPERIENCE

- SP2017 **Instructor of Record - UH 1984: Honors Undergraduate Research Practices**
Honors College, Virginia Polytechnic Institute and State University
Co-instructor with Dr. Nikki Lewis
- Developed course for honors students to jump-start their interdisciplinary research agendas and thus position themselves effectively for internships, co-ops, REUs (Research Experiences for Undergraduates), graduate programs, and work in highly competitive research projects on campus and beyond.
- SP2014 –
SP2017 **Instructor of Record – BCHM 5024: Computational Biochemistry for Bioinformatics**
Department of Biochemistry, Virginia Polytechnic Institute and State University
Co-instructor with Dr. David Bevan
- Developed and continually updated course lectures, assignments, and content scheduling. Project-based learning environment with final project using techniques learned in class. Graded assignments and exams, met with students to aide in students in understanding the software for assignments, and guided final project development.
- SSII 2014 **Instructor of Record – ALS 2984 Chemical Problem Skills for the Life Sciences**
Department of Biochemistry, Virginia Polytechnic Institute and State University
- Developed course and presented all lectures, assignments, and exams related to the course.
 - Topics include: significant figures, stoichiometry, concentrations, molarity applications, ionic equations and precipitates, acid-base fundamentals
- FA2011 –
SP2013 **Teaching Assistant – BCHM 4984 Special Studies: Biomolecular Visualization**
Department of Biochemistry, Virginia Polytechnic Institute and State University
- Assisted students in the development of projects and introduced them to molecular visualization techniques. Graded projects and helped students develop presentation and writing skills.
- SP2012 **Teaching Assistant – BCHM 2024 Concepts of Biochemistry**
Department of Biochemistry, Virginia Polytechnic Institute and State University
- Administered quizzes and exams, held weekly office hours, and met with students upon request
- FA2011 **Teaching Assistant – BCHM 5124 Biochemistry for the Life Sciences**
Department of Biochemistry, Virginia Polytechnic Institute and State University
- Administered quizzes and exams, held weekly office hours, and met with students upon request

TEACHING ASSESSMENT

Numbers in brackets represent average student perception of teaching (SPOT) score across seven assessments

Instructor of Record - UH 1984: Honors Undergraduate Research Practices

SP 17, 31 students, 3H 3C, SPOT [5.4/6]

Instructor of Record – BCHM 5024: Computational Biochemistry for Bioinformatics

SP 17, 31 students, 3H 3C, SPOT [5.3/6]

SP 16, 6 students, 3H 3C, SPOT [5.6/6]

SP 15, 12 students, 3H 3C, SPOT [5.8/6]

Instructor of Record – ALS 2984 Chemical Problem Skills for the Life Sciences

SSII 14, 10 students, 3H 3C, SPOT [5.6/6]

GUEST LECTURES

- 2017 **BCHM 2114** Biochemical Calculations, **SYSB 2026** Intro to Systems Biology, **UL** Advanced Research Skills Certificate Program, **CALS** Communicating Science Workshop
- 2016 **BCHM 1014** Biochem First Year Experience, **CS 5764** Information Visualization, **STAT 1004** Experience Learning from Data, **MGT/ENGE/IDS 4009** Startup: Managing Technology Commercialization

PUBLICATIONS

[Google Scholar](#) Citations: 53, [PubMed](#)

* indicates undergraduate research mentee

1. Congdon, M.D., Kharel, Y., **Brown, A.M.**, Lewis, S.N., Thorpe, S.B., Bevan, D.R., Lynch, K.R., and Santos, W. L. "Probing the conformation of the sphingosine kinase 2 binding pocket: structure-activity relationship studies and molecular modeling of indole-based sphingosine kinase 2 inhibitors". In preparation.
2. *Miller, J.E., **Brown, A.M.**, Lewis, S.N., Hontechillas-Magarzo, R., Bassaganya-Riera, J., and Bevan, D.R. "Development of a docking protocol to achieve agonist specificity among PPAR isoforms". In preparation.
3. **Brown, A.M.**, and Bevan, D.R. (2017) "Introducing Protein 3-D Visualization Software to Freshman Undergraduate Students: Making Connections and Building Skills." *Proceedings of the Practice and Experience in Advanced Research Computing (PEARC17) Conference*. New Orleans, USA, 2017; in revision.
4. Turner, S.G., **Brown, A.M.**, and Jarrott, S.E. (2017) For Students, By Students: Service-Learner Involvement in the Development of Visiting Kits to Facilitate Student Interactions with Old Adults, *J. Intergener. Relatsh.* 15, 181-187.
5. Childress, E.S, Kharel, Y., **Brown, A.M.**, Bevan, D.R., Lynch, K.R., and Santos, W.L. (2017) "Transforming Sphingosine Kinase 1 Inhibitors into Dual and Sphingosine Kinase 2 Selective Inhibitors: Design, Synthesis, and In Vivo Activity." *J. Med. Chem.* 60, 3933-3957. **F1000 recommended paper.**
6. **Brown, A.M.**, and Bevan, D.R. (2017) "Influence of Sequence and Lipid Type on Membrane Perturbation by Human and Rat Amyloid β -Peptide (1-42)." *Arch. Biochem. Biophys.* 614, 1-13.
7. **Brown, A.M.**, Polys, N., Bevan, D., Mohammed, A. (2016) "Insights into Alzheimer's Disease: Molecular Dynamics (MD) Simulations of Peptide-Membrane Interactions." *Proceedings of the XSEDE16 Conference on Diversity, Big Data, and Science at Scale*, ACM: Miami, USA, 2016; pp 1-3.
8. **Brown, A.M.**, and Bevan, D.R. (2016) "Insight into Amyloid β -Peptide (1-42) Tetramer Formation, Rearrangement, and Tetramer-Membrane Interactions by Molecular Dynamics Simulations." *Biophys. J.* 111(5), 937-949.
9. **Brown, A.M.**, Lewis, S.N., and Bevan, D.R. (2016) "Development of a Structure Undergraduate Research Experience: Framework and Implications." *Biochem. Mol. Biol. Educ.* 44(5), 463-474.
10. Miller, D.V., **Brown, A.M.**, Xu, H., Bevan, D.R., and White, R.H. (2016) "Purine salvage in *Methanocaldococcus jannaschii*: Elucidating the role of a conserved cysteine in adenine deaminase." *Proteins* 84(6), 828-840.
11. Congdon, M.D., Kharel, Y., **Brown, A.M.**, Lewis, S.N., Thorpe, S.B., Bevan, D.R., Lynch, K.R., and Santos, W. L. (2016) "Structure-activity relationship studies and molecular modeling of naphthalene-based sphingosine kinase 2 inhibitors." *J. Med. Chem. Letters.* 7(3), 229-234. (Cover Art for March 2016)
12. **Brown, A.M.**, Lemkul, J. A., Schaum, N., and Bevan, D. R. (2014) "Simulations of monomeric amyloid β -peptide (1-40) with varying solution conditions and oxidation state of Met35: Implications for aggregation." *Arch. Biochem. Biophys.* 545, 44-52.
13. *Gerben, S. R., Lemkul, J. A., **Brown, A.M.**, and Bevan, D. R. (2013) "Comparing atomistic molecular mechanics force fields for a difficult target: a case study on the Alzheimer's amyloid β -peptide." *J. Biomol. Struct. Dyn.* 32(11), 1-16.
14. **Brown, A.M.**, Hoopes, S.L., White, R.H., and Sarisky, C.A. (2011) "Purine Biosynthesis in Archaea: Variations on a Theme." *Biol Direct.* 14(6), 63.
15. Trinkle, D., Brock, D.P., **Brown, A.M.** (2011) "Mild Memory Loss and Receptivity to Gaming Device Assessments." *Clin Geriatr.* 19 (1), 16.

INVITED PRESENTATIONS AND WORKSHOPS

1. **Brown, A.M.** and Lewis, S.N. "Pedagogical Practices to Engage Undergraduates in the Research Process". 9th Annual Conference on Higher Education Pedagogy. Blacksburg, VA, February 2017.
2. **Brown, A.M.** "Introducing 3-D Visualization Software in Science Classes: Making Connections and Building Skills in Core Concepts". Biotechnology Educators Conference. Blacksburg, VA, July 2016.
3. **Brown, A.M.** "Introducing 3-D Visualization Software and Using it for Understanding Concepts in Coursework". Virginia Tech Biocomplexity Institute High-Performance Computing in the Medical Sciences. Blacksburg, VA, July 2016.
4. **Brown, A.M.**, Lewis, S.N., and Bevan, D.R. "Utilization of Molecular Visualization Programs in the Classroom." Biotechnology Educators Conference. Blacksburg, VA, July 2015.

PRESENTATIONS AND PUBLISHED ABSTRACTS

1. *Worrell, B.L, **Brown, A.M.**, and Bevan, D.R. "Structural Distinctions Between Isoforms of Human and Mouse Sphingosine Kinases." Summer Undergraduate Research Symposium. Blacksburg, VA, July 2016.
2. *Briganti, J., *Elliott, B., and **Brown, A.M.** "Preliminary Interest in Regular Cognitive Screening." Summer Undergraduate Research Symposium. Blacksburg, VA, July 2016.
3. **Brown, A.M.** and Bevan, D.R. "Atomistic Molecular Dynamics Simulations of Amyloid β -peptide (1-42): Tetramer Formation, Rearrangement, and Membrane Interactions." VirginiaBrainRX: A Symposium on Drug Discovery for the Brain. Richmond, VA, May 2016.
4. **Brown, A.M.** and Bevan, D.R. "Utilization of Computational Techniques to Understand Protein Structure-Function Relationships and Guide Drug Design." VirginiaBrainRX: A Symposium on Drug Discovery for the Brain. Richmond, VA, May 2016.
5. *Hollingsworth, L. R. IV, *Fuchs, R.L., Werle, C.M., **Brown, A.M.**, Bevan, D.R., and Gandour, R.D. "Computational Insights into the Optimization of Anti-HIV Alternating Copolymers." Virginia Tech Advanced Research Computing High Performance Computing Day, Blacksburg, VA, April 2016.
6. *Hollingsworth, L. R. IV, *Fuchs, R.L., Werle, C.M., **Brown, A.M.**, Bevan, D.R., and Gandour, R.D. "Computational Insights into the Optimization of Anti-HIV Alternating Copolymers." National Conference on Undergraduate Research. Asheville, NC, April 2016.
7. *Richardson, M.R., **Brown, A.M.**, and Bevan, D.R. "Assessing the Influence of Flavonoids in Attenuating β -strand Fibril Formation of Islet Amyloid Polypeptide by Molecular Dynamics Simulations." National Conference on Undergraduate Research. Asheville, NC, April 2016.
8. *Seeley, K., **Brown, A.M.**, Lewis, S.N., and Bevan, D.R. "The Effect of PPAR γ Mutation Q286P on 15-deoxy-12,14-prostaglandin J2 Binding Activity." National Conference on Undergraduate Research. Asheville, NC, April 2016.
9. *Hollingsworth, L. R. IV, *Fuchs, R.L., Werle, C.M., **Brown, A.M.**, Bevan, D.R., and Gandour, R.D. "Computational Insights into the Optimization of Anti-HIV Alternating Copolymers." Abstracts of Papers, AIChE Mid Atlantic Regional Student Conference, Newark, DE, April 2016.
10. *Hollingsworth, L. R. IV, *Fuchs, R.L., Werle, C.M., **Brown, A.M.**, Bevan, D.R., and Gandour, R.D. "Computational insights into the optimization of anti-HIV alternating copolymers." Abstracts of Papers, 251st ACS National Meeting & Exposition, San Diego, CA, March 2016.
11. *Bittner, M.C., **Brown, A.M.**, and Bevan, D.R. "Understanding Different Factors Affecting Type 2 Diabetes Caused by Variations in IAPP Sequence". 2016 Undergraduate Research and Creative Scholarship Conference. Blacksburg, VA, February 2016.
12. *Dimitry, N.E., **Brown, A.M.**, and Bevan, D.R. "Using Molecular Dynamics Simulations to Assess Inhibitor Specificity between Sphingosine Kinase 1 and 2. 2016 Undergraduate Research and Creative Scholarship Conference. Blacksburg, VA, February 2016.
13. *Northington, D., **Brown, A.M.**, and Bevan, D.R. "Insights into Amyloidogenicity: Molecular Dynamics Simulations of AB(17-42)(p3) in Varying Environments." Summer Undergraduate Research Symposium. Blacksburg, VA, July 2015.
14. *Mushagasha, J., **Brown, A.M.**, Hilu, K., and Bevan, D.R. "Assessing Structural Differences and the Potential Link to Allergenicity of Antigenic Peanut Protein Orthologs from the Genus Arachis." Summer Undergraduate Research Symposium. Blacksburg, VA, July 2015.
15. *Miller, J., **Brown, A.M.**, Lewis, S.N., and Bevan, D.R. "Molecular Docking of PPAR α to Identify Potent Therapeutic Agents for Cardiovascular Disease." 13th Annual VT Undergraduate Research Conference. Blacksburg, VA, April 2015. (Poster Presentation).
16. **Brown, A.M.** and D.R. Bevan. "Influence of Sequence and Lipid Type on Membrane Perturbation by Human and Rat Amyloid β -Peptide (1-42)." 249th Annual ACS National Meeting. Denver, CO, March 2015. (Poster presentation)
17. **Brown, A.M.** and D.R. Bevan. "Influence of Sequence and Lipid Type on Membrane Perturbation by Human and Rat Amyloid β -Peptide (1-42)." 59th Annual Biophysical Society Meeting. Baltimore, MD, February 2015. (Poster presentation)
18. **Brown, A.M.**, Lewis, S.N., and Bevan, D.R. "Development of a Structure Undergraduate Research Experience: Framework and Implications". 7th Annual Conference on Higher Education Pedagogy. Blacksburg, VA, February 2015. (Oral presentation)
19. **Brown, A.M.**, Lemkul, J.A., Schaum, N., and Bevan, D.R. "Solution Conditions and Oxidation State of Methionine-35 Affect the Aggregation Properties of Amyloid β -Peptide (1-40)." Molecular Biophysics Symposium. Blacksburg, VA, November 2014. (Poster presentation)
20. Miller, D.V., **Brown, A.M.**, Xu, H., Bevan, D.R., and White, R.H. "Elucidating the Role of a Conserved Cysteine in Adenine Deaminases". Molecular Biophysics Symposium. Blacksburg, VA, November 2014. (Poster presentation)
21. *Berk, S.J., **Brown, A.M.**, Zhao, X., Armstrong, G., Capelluto, D.G.S., and Bevan, D.R. "Membrane Binding Properties of the Innate Immunity Adaptor TIRAP". Molecular Biophysics Symposium. Blacksburg, VA, November 2014. (Poster presentation)
22. *Izac, J.R., **Brown, A.M.**, Xu, B., and Bevan, D.R. "Homology Modeling and Ligand Interactions of GPCRs." 12th Annual VT Undergraduate Research Conference. Blacksburg, VA, April 2014. (Poster presentation)
23. *Kellinger, C.P., **Brown, A.M.**, Long, T.E., and Bevan, D.R. "Molecular Dynamics of Non-Viral Gene Delivery Vectors." 12th Annual VT Undergraduate Research Conference. Blacksburg, VA, April 2014. (Poster presentation)
24. *Yang, S.H., Hart, M.R., **Brown, A.M.**, Lemkul, J.A., and Bevan, D.R. "Determining the Efficacy of Wine-Related Flavonoids in the Inhibition of Amyloid β -peptide Aggregates." 12th Annual VT Undergraduate Research Conference.

- Blacksburg, VA, April 2014. (Poster presentation)
25. *Ruohoieimi, D., **Brown, A.M.**, Long, T.E., and Bevan, D.R. "Relative Stability of DNA Complexes with Phosphonium/Ammonium-Based Cationic Vectors." Summer Undergraduate Research Symposium. Blacksburg, VA, July 2013. (Oral presentation)
 26. *Quasie-Woode, D., **Brown A.M.**, and Bevan, D.R. "Molecular Dynamics Simulation of Interactions Between Amyloid β -peptide and Kisspeptin." Summer Undergraduate Research Symposium. Blacksburg, VA, July 2013. (Poster presentation)
 27. **Brown, A.M.**, Lemkul, J.A., Schaum, N., and Bevan D.R. "Solution Conditions and Oxidation State of Methionine-35 Affect the Aggregation Properties of Amyloid β -Peptide (1-40)." 92nd Annual Meeting of the Virginia Academy of Science. Blacksburg, VA, May 2013.
 28. *Maddox, D.R., **Brown, A.M.**, Xu, B., and Bevan, D.R. "Computational Characterizing the Structural Dynamics and Interactions of Irisin". 92nd Annual Meeting of the Virginia Academy of Science. Blacksburg, VA, May 2013. (Poster presentation)
 29. **Brown, A.M.**, Lemkul, J.A., Schaum, N., and Bevan D.R. "Solution Conditions and Oxidation State of Methionine-35 Affect the Aggregation Properties of Amyloid β -Peptide (1-40)." VT 29th Annual Graduate Student Research Symposium. Blacksburg, VA, March 2013. (1st place poster, poster presentation)
 30. Miller, D., **Brown, A.M.**, and White, R.H. "Establishing New Functions for Conserved Cysteine Motifs in Methanogenic Archaea." Gordon Research Conference "Thiol-Based Redox Regulation and Signaling". Lewiston, ME, August 2012. (Poster presentation)
 31. Valenciano, A., **Brown, A.M.**, and Mackey, Z.B. "Determining the Functional Relationship between TbERK8 and TbPCNA in Trypanosoma brucei." Gordon Research Conference "Biology of Host-Parasite Interactions", Newport, RI, June 2012. (Poster presentation)

RESEARCH EXPERIENCE

2012-2016	<p>Graduate Research Assistant Focus: Utilization of Computational Techniques to Understand Protein Structure-Function Relationships Department of Biochemistry, Virginia Polytechnic Institute and State University Major Professor: David R. Bevan, Ph.D.</p> <ul style="list-style-type: none"> ○ MD simulations of peptide-membrane interactions (amyloid β, IAPP) ○ MD simulations of small molecule-DNA complexes, peptide-small molecule ○ Molecular docking and virtual screening for novel therapeutic compounds ○ Expertise in GROMACS, VMD, PyMOL, AutoDock, MOE ○ Expertise in Perl, Linux/Unix, shell scripting, HTML ○ Lab manager and undergraduate student researcher mentor
2011-2012	<p>Graduate Rotation Student Department of Biochemistry, Virginia Polytechnic Institute and State University Research Mentors: Zachary B. Mackey, Ph.D. and Robert H. White, Ph.D.</p> <ul style="list-style-type: none"> ○ Protein expression, purification, characterization, and microscopy
2007-2010	<p>Undergraduate Researcher Department of Chemistry, Roanoke College Research Mentor: Catherine A. Sarisky, Ph.D.</p> <ul style="list-style-type: none"> ○ Protein expression, purification, characterization, NMR, and HPLC
2007-2010	<p>Undergraduate Clinical Researcher Carilion Clinic Carilion Center for Healthy Aging Research Mentor: Dr. David B. Trinkle, M.D.</p> <ul style="list-style-type: none"> ○ One-on-one patient contact, data input/analysis, development of research protocols, and case study reviews ○ Projects: Use of Video Gaming Devices to Assess Mild to Moderate Memory Loss in Older Adults, Validation of Noninvasive Body Sensor Network Technology in the Detection of Agitation in Dementia

SERVICE – SYNERGISTIC ACTIVITIES

Ongoing	Ad-hoc manuscript reviewer: Biophysical Journal
2016-present	BioactiVT Faculty Advisor
2016-present	Faculty Affiliate, Virginia Tech Center for Gerontology
2012 – 2016	Director, Graduate-Undergraduate Mentorship Program
2014, 2015	Mentor, Virginia Tech CALS – Uniondale High School Summer Research Program (mentored two high school students who presented at local, regional, and national science fairs)

SERVICE – UNIVERSITY COMMITTEES

2017	VT Adaptive Brain and Behavior Curriculum Committee
2017	Health Sciences Librarian Search Committee
2017	VT Department of Biochemistry Curriculum Committee
2016	VT Adaptive Brain and Behavior Faculty Design Team
2016-present	University Libraries Social Committee
2014-2015	Biochemistry Department Head Search Committee

PATENTS

2017	Title: digitally enhanced screening app (DESA) platform that hosts modules, which are diagnostic tests relevant to patient well-being. Patent-pending, 62/482,486 (Inventors: Briganti, Brown, Elliot)
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PRESS AND MEDIA

2017	Artist and researcher pairs for the Spring 2017 Exhibition, "Research in the Abstract" http://medicine.vtc.vt.edu/community_outreach/creativity/art/spring2017pairs/
2015	Graduate Teaching Scholar Wins Outstanding Student Service Excellence Award http://cals.vt.edu/academic-programs/current/graduate/gts/articles/brown-anne-service-excellence-award.html
2015	VT Illuminator Awards Announced https://vtnews.vt.edu/articles/2015/06/060415-unirel-illuminatorawards.html

PROFESSIONAL AFFILIATIONS

2016-present	Sigma Xi Scientific Research Society
2014-present	Biophysical Society
2014-present	American Chemical Society
2013 – 2014	Virginia Academy of Science
2010-present	Phi Beta Kappa National Arts and Sciences Honor Fraternity
2010 – 2013	Alpha Epsilon Delta Health Pre-professional Honor Society

PROFESSIONAL DEVELOPMENT

Year	Training
2017	Safe Zone Training

THESIS COMMITTEE MEMBER

Year(s)	Thesis Student	Program, Degree	Thesis Advisor
05/17-present	Hannah Valentino	Biochemistry, Ph.D.	Dr. P. Sobrado

MENTORING

Year(s)	Student's Name	Major	Awards/Career Path
01/17-present	David Barto	Biochemistry	BlueWaters Supercomputing Fellowship
01/17-present	Grant Kawecki	Biochemistry	
01/17-present	Sean Lowney	Neuroscience	
01/17-present	Chris Lee	Neuroscience	
08/16-present	Conor Kelley	Chemistry	
08/15-present	Hytham Soud	Biochemistry	
08/14-present	Joel Mushagasha	Biochemistry	
08/14-present	Hannah Ricketts	Human, Nutrition, Foods, and Exercise (HNFE)	
08/14-present	Creighton (Javier) Friend	Biochemistry	

08/14-present	Brittney Worrell	Biochemistry	
08/15-08/17	Louis (Bobby) Hollingsworth	Biochemistry, Chemistry, Chemical Engineering	Ph.D. program, Biomedical Sciences, Harvard University, Outstanding Senior College of Engineering, Phi Beta Kappa, 2 nd Annual Biophysical Symposium poster winner, Honors thesis
01/17-05/17	Roan Parrish	Neuroscience	Industry
01/17-05/17	Derek Messer	Computer Science	Industry
08/16-05/17	Mary Carome	Computer Science	Industry
08/16-05/17	Paulene Sapao	Biochemistry	Ph.D. program, Biomedical Sciences, VCU, senior thesis
08/14-05/17	Megan Richardson	Biochemistry	Ph.D. program, Virginia Tech Dept. of Biochemistry, ACC Meeting of Minds Winner, NCUR presenter, 2 nd Annual Biophysical Symposium poster winner, senior thesis
08/14-05/17	Kendall Seeley	Biochemistry	NCUR presenter, senior thesis
08/16-05/17	Rebecca Engler	Chemical Engineering	Industry
01/16-05/17	Jonathan Briganti	Neuroscience	Masters Program, Business Analytics VT, Global Health Hackathon Winner
01/16-05/17	Zuzka Han	Biochemistry	Industry
08/15-05/17	Nicholas Cipriano	Biochemistry	UNC School of Pharmacy
08/16-12/16	Brian Elliot	Electrical and Computer Engineering	Industry, Global Health Hackathon Winner
08/13-05/16	Nikolas Dimitry	Biochemistry	VCOM School of Medicine
08/13-05/15	Justine Miller	Biochemistry	VTC School of Medicine