

**Lauren Parker Jackson**

August 2017

Vanderbilt University  
 Departments of Biological Sciences & Biochemistry  
 Center for Structural Biology  
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**Education**

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- 2003-2007 Doctor of Philosophy  
 MRC Laboratory of Molecular Biology & Trinity College, Cambridge, UK
- Advisor: Dr. Philip Evans, FRS
  - Thesis: “Structural and functional studies of vesicle coat components”
- 1999-2003 Bachelor of Science, *Summa cum laude*, Vanderbilt University, Nashville, TN
- College of Arts and Sciences Founder’s Medalist
  - High Honors in Chemistry, Classical Studies minor, GPA: 3.989/4.000
  - Honors thesis: “Fiber Diffraction Studies of Potexviruses and Potyviruses”

**Employment**

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- 2014-present Assistant Professor of Biological Sciences, Vanderbilt University  
 Assistant Professor of Biochemistry, Vanderbilt University (Secondary appointment)  
 Affiliations: Center for Structural Biology, Chemical & Physical Biology Program,  
 Epithelial Biology Center, Vanderbilt Brain Institute
- 2009-2013 Postdoctoral Research Associate  
 Cambridge Institute for Medical Research, Cambridge, UK
- Advisor: Professor David Owen, FRS
- 2007-2009 Junior Consultant, The Boston Consulting Group, London, UK

**Selected awards, honors, and fellowships**

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- 2016 Pew Scholar
- 2016 Littlejohn Faculty Fellow, Vanderbilt Undergraduate Summer Research Program
- 2016 Provost Research Studio for Faculty Development, Vanderbilt University
- 2013 Gordon Research Conference travel award (Molecular Membrane Biology)
- 2012 Keystone Symposia Future of Science Fund Scholarship (Structural Biology of Cellular Processes)
- 2011 Protein Society Young Investigator Travel Grant/Finn Wold Travel Award
- 2010 Gordon Research Conference travel award (Lysosomes & Endocytosis)
- 2004 Academy of Achievement International Achievement Summit. Chicago, IL
- 2003 Fellowship awards for postgraduate study
- Medical Research Council Laboratory of Molecular Biology Scholarship
  - Trinity College, Cambridge, Honorary External Research Studentship
  - National Science Foundation Fellowship (declined)
  - Gates Cambridge Scholarship (declined)
- 2003 Phi Beta Kappa, Alpha of Tennessee (Vanderbilt University)
- 2003 Phi Beta Kappa Joel Tellinghuisen Award for Undergraduate Research (Vanderbilt)
- 2003 Outstanding Senior in Chemistry (Vanderbilt Dept. of Chemistry)
- 2003 Donald E Pearson Award for Undergraduate Research (Vanderbilt Dept. of Chemistry)

## Research

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### Peer-reviewed publications & invited reviews

14. Xu P, Hankins HM, Macdonald C, Erlinger SJ, Frazier MN, Diab NS, Piper RC, **Jackson LP**, Macgurn JA, and Graham TR. (2017). COPI mediates recycling of an exocytic SNARE from endosomes by recognition of a ubiquitin sorting signal. *Under revision, eLife*.
13. Archuleta TA, Frazier MN, Monken A, Kendall AK, Harp J, McCoy AJ, Creanza N, and **Jackson LP**. (2017). Structure and evolution of ENTH and VHS/ENTH-like domains in tepsin. *Traffic* 18: 590-603.
12. Frazier MN and **Jackson LP**. (2017). Spotlight: Watching real-time endocytosis in living cells. *J Cell Biol* 216, 9-11.
11. Frazier MN, Davies AK, Voehler M, Kendall AK, Borner GH, Chazin WJ, Robinson MS, and **Jackson LP**. (2016). Molecular basis for the interaction between Adaptor Protein Complex 4 (AP4)  $\beta$ 4 and its accessory protein, tepsin. *Traffic* 17: 400-415.
10. **Jackson LP**. (2014). Structure and mechanism of COPI vesicle biogenesis. *Curr Opin Cell Biol* 29C, 67-73.
9. Hesketh GG\*, Pérez-Dorado I\*, **Jackson LP**, Wartosch L, Schäfer IB, Gray SR, McCoy AJ, Zeldin OB, Garman EF, Harbour ME, Evans PR, Seaman MN, Luzio JP, Owen DJ. (2014). VARP is Recruited Onto Endosomes by Direct Interaction with Retromer, Where Together They Function in Export to the Cell Surface. *Dev Cell* 29, 591-606. (\*joint first authors)
8. **Jackson LP**†, Lewis M, Kent HM, Edeling MA, Evans PR, Duden R, and Owen DJ†. (2012). Molecular basis for recognition of dilysine trafficking motifs by COPI. *Dev Cell* 23, 1-8. (†corresponding authors)
7. **Jackson LP**†, Kümmel D†, Reinisch K, and Owen DJ. (2012). Structures and mechanisms of vesicle coat components and multisubunit tethering complexes. *Curr Opin Cell Biol* 24, 475-483. (†corresponding authors)
6. Borner GHH, Antrobus R, Hirst J, Bhumbra GS, Kozik P, **Jackson LP**, Sahlender DA, and Robinson MS. (2012). Multivariate proteomic profiling identifies novel accessory proteins of coated vesicles. *J Cell Biol* 197, 141-60.
5. **Jackson LP**\*, Kelly BT\*, McCoy, AJ, Gaffry, T, James LC, Collins BM, Höning S, Evans PR, Owen DJ. (2010). A large scale conformational change couples membrane recruitment to cargo binding in the AP2 clathrin adaptor complex. *Cell* 141, 1220-29. (\*joint first authors)
4. Pryor PR, **Jackson LP**, Gray SR, Edeling MA, Thompson A, Sanderson CM, Evans PR, Owen DJ, Luzio JP. (2008). Molecular basis for the sorting of the SNARE VAMP7 into endocytic clathrin-coated vesicles by the ArfGAP Hrb. *Cell* 134, 817-27.

3. **Parker L**, Kendall A, Berger, PH, Shiel, PJ, and Stubbs, G. (2005). Wheat streak mosaic virus—Structural parameters for a *Potyvirus*. *Virology* 340, 64-69 (featured on cover)
2. Stubbs G, **Parker L**, Junn J, and Kendall, A. (2005). Flexible filamentous virus structures from fiber diffraction. *Fiber Diffraction Review* 13, 38-42
1. **Parker L**, Kendall A, and Stubbs, G. (2002). Surface Features of Potato Virus X from Fiber Diffraction. *Virology* 300, 291-29 (featured on cover)

#### Current funding

1. NIH/NIGMS 1R35GM119525-01 (PI: Lauren P Jackson)  
“Molecular mechanisms of coat protein assembly and regulation in membrane trafficking”  
Role: Principal Investigator
2. Pew Charitable Trusts, Pew Scholars Award (PI: Lauren P Jackson)  
“Coat protein function in membrane trafficking and human disease”  
Role: Principal Investigator
3. NIH/NIGMS R01 (PI: Todd Graham)  
“Mechanisms of protein transport between Golgi and endosomes”  
Role: Collaborator
4. Vanderbilt University Beckman Scholars Program, Arnold and Mabel Beckman Foundation  
Role: Associate Director
5. S10 Shared Instrumentation Grant Program (PI: Ben Spiller)  
“NanoTemper Monolith NT.115 Microscale Thermophoresis (MST) instrument”  
Role: Key Person/Future User

#### Invited talks

23. Cornell University, Biophysics Colloquium Series. November 13, 2017. Ithaca, NY.  
Working title: Mechanisms of coat assembly in membrane trafficking pathways.
22. Flexner Discovery Lecture, Vanderbilt University Medical Center. September 21, 2017. Nashville, TN. Working title: Membrane trafficking proteins in cell biology and human disease.
21. 38<sup>th</sup> Steenbock Symposium: Protein Trafficking in the Secretory Pathway. June 24, 2017. Madison, WI. Title: Structure and evolution of ENTH and VHS/ENTH-like domains in tepsin.
20. Vanderbilt Molecular Biophysics Training Program. May 9, 2017. Nashville, TN.  
Title: Mechanisms of coat assembly & regulation in membrane trafficking.
19. Pew Scholars Annual Meeting. March 6, 2017. Santa Barbara, CA.  
Title: Mechanisms of vesicle coat assembly in cell biology and human disease.
18. Vanderbilt Center for Structural Biology, External Advisory Board Meeting. December 15, 2016. Nashville, TN. Title: Membrane trafficking proteins in cell biology and human disease.
17. Vanderbilt University Medical Center, Biomedical Science Advisory Board Meeting. December 2, 2016. Nashville, TN. Title: Membrane trafficking proteins in cell biology and human disease.
16. Faculty keynote, Vanderbilt Dept. of Biological Sciences Annual Retreat. October 2015. Nashville, TN. Title: Molecular mechanisms of coated vesicle assembly.

15. Epithelial Biology Center Symposium, Vanderbilt University. May 2015, Nashville, TN.  
Title: A retromer/VARP complex sorts VAMP7 at endosomes.
14. Frontiers in Biochemistry seminar series, Vanderbilt Dept. of Biochemistry. December 2014, Nashville, TN. Title: Mechanisms of coat assembly in post-Golgi trafficking.
13. Tennessee State University Dept. of Biological Sciences. November 2014, Nashville, TN.  
Title: Mechanisms of coat assembly in post-Golgi trafficking.
12. Vanderbilt Association of Biology Students and Dept. of Biological Sciences. April 2014, Nashville, TN. Title: Molecular mechanisms of vesicle assembly in membrane trafficking pathways.
11. Vanderbilt Molecular Biophysics Training Program. February 2014, Nashville, TN. Title: Molecular mechanisms of vesicle coat assembly in membrane trafficking.
10. Gordon Research Conference on Molecular Membrane Biology. July 2013, Andover, NH.  
Title: Molecular basis for recognition of dilysine-based cargo by the COPI coat. (Travel supported by GRC.)
9. Cambridge Institute for Medical Research Annual Retreat. March 2013, Cambridge, UK.  
Title: Molecular basis for dilysine cargo recognition by COPI.
8. Vanderbilt University Dept. of Biological Sciences. January 2013, Nashville, TN.  
Title: Mechanisms of cargo sorting in membrane trafficking pathways. (Job interview.)
7. University of Pittsburgh Dept. of Biological Sciences. January 2013, Pittsburgh, PA.  
Title: Mechanisms of cargo sorting in membrane trafficking pathways. (Job interview.)
6. Vanderbilt University Department of Biological Sciences. August 2011, Nashville, TN.  
Title: Structural basis for endocytic cargo recognition at the plasma membrane.
5. The Protein Society 25th anniversary symposium. July 2011, Boston, MA.  
Title: Structure and function of AP2 at the plasma membrane. (Selected from abstracts; travel award provided by Protein Society.)
4. Gordon Research Conference on Lysosomes and Endocytosis. June 2010, Andover, NH.  
Title: Structure and function of AP2 at the plasma membrane. (Travel supported by GRC)
3. UK membrane trafficking meeting. December 2009, London, UK.  
Title: Structure and function of AP2 at the plasma membrane.
2. Trinity College Science Symposium. March 2007, Trinity College, Cambridge, UK.  
Title: EnSNAREd: Membrane trafficking and protein recycling.
1. Trinity College Science Symposium. March 2005, Trinity College, Cambridge, UK.

#### **Published abstracts and poster presentations**

16. Archuleta TA, Frazier MN, Monken AE, Kendall AK, Creanza N, and **Jackson LP**. (2017).  
Structure and evolution of ENTH and VHS/ENTH-like domains in tepsin.
  - 38<sup>th</sup> Steenbock Meeting, Madison, WI
  - Gordon Research Conference, Molecular Membrane Biology, Andover, NH
15. Frazier MN, Davies AK, Voehler M, Borner GHH, Chazin W, Robinson MS, **Jackson LP**. (2016).  
Molecular basis for the interaction between AP4  $\beta 4$  and its accessory protein, tepsin. Gordon Research Conference, Lysosomes & Endocytosis, Andover, NH.
14. Xu P, Hankins HM, Macdonald C, MacGurn JA, **Jackson LP**, Piper RC, Graham TR. (2016).  
COPI sorts ubiquitinated cargo at early endosomes. Cell Dynamics Symposium, Nashville, TN.

13. Xu P, Hankins HM, Diab NS, Erlinger SJ, MacGurn JA, **Jackson LP**, and Graham TR. (2016). COPI sorts ubiquitinated membrane proteins at early endosomes. 23<sup>rd</sup> Annual Southeastern Regional Yeast Meeting, Tuscaloosa, AL.
12. Frazier MN, Davies AK, Voehler M, Borner GHH, Robinson MS, **Jackson LP**. (2015). Molecular basis for the interaction between AP4 and its accessory protein tepsin. Gordon Research Conference on Molecular Membrane Biology, Andover, NH.
11. Xu P, MacGurn JA, **Jackson LP**, and Graham TR. (2015). COPI sorts ubiquitinated membrane proteins at early endosomes. Gordon Research Conference, Molecular Membrane Biology, Andover, NH.
10. **Jackson LP**, Hesketh GG, Crawley-Snowdon H, Pérez-Dorado I, Wartosch L, Schäfer I, Luzio JP, Seaman MNJ, Owen DJ. Retromer recruits VARP onto endosomes and mediates VAMP7 trafficking.
  - 13<sup>th</sup> Annual Symposium on Membrane Traffic, Pittsburgh, PA (May 2014)
  - Gordon Conference on Lysosomes and Endocytosis, Andover, NH (June 2014)
9. **Jackson LP**, Lewis M, Kent HM, Evans PR, Duden R, and Owen DJ. (2013). Molecular basis for dilysine cargo sorting by the COPI coat. Gordon Research Conference on Molecular Membrane Biology, Andover, NH.
8. **Jackson LP**, Kelly BT, McCoy A, Höning S, Evans PR, and Owen DJ. An open and active form of AP2 couples membrane binding to cargo recognition and binding.
  - Keystone Symposium, Structural Biology of Cellular Processes, Keystone, CO (2012)
  - Protein Society, 25th Anniversary Symposium, Boston, MA (2011)
  - Gordon Conference on Lysosomes and Endocytosis. Andover, NH (2010)
7. Evans P, Owen D, Kelly B, McCoy A, and **Jackson L**. (2009). The Recognition of Endocytic Signal Sequences by the AP2 Complex. 25<sup>th</sup> European Crystallographic Meeting, ECM 25, Istanbul, Turkey. *Acta Cryst A65* (supplemental).
6. **Parker L**, Kent, H, and Evans, P. (2006). Biophysical and Structural Characterization of Adaptor-related Protein Complex 4. American Crystallographic Association Annual Meeting, Honolulu, HI.
5. Kendall A, Francica J, Junn J, Montague L, **Parker L**, and Stubbs G. (2005). Flexible filamentous plant virus structures by fiber diffraction and crystallography. American Crystallographic Association Annual Meeting, Orlando, FL.
4. Stubbs G, Bunick C, Kendall A, and **Parker L**. (2003). Structural Studies of Flexible Filamentous Plant Viruses by Fiber Diffraction and Crystallography. American Crystallographic Association Annual Meeting, Cincinnati, OH.
3. **Parker L**. Fiber Diffraction Studies of Potexviruses and Potyviruses. October 4, 2002. Pfizer Summer Undergraduate Research Fellowship Poster Session, Groton, CT.

2. Stubbs G, Kendall A, Lynch K, **Parker L**, Taraska N, Kondrashkina E, and Irving T. (2002). Fiber diffraction studies of potato virus X on the BioCAT beamline at the Advanced Photon Source. Eleventh Annual Fibre Diffraction and Non-Crystalline Diffraction Workshop, Keele, UK.

1. Stubbs G, Kendall A, Lynch K, **Parker L**, and Taraska N. (2002). Fiber diffraction studies of potato virus X. American Crystallographic Association, San Antonio, TX.

## **Teaching & Mentoring**

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### Current courses

BSCI220/BSCI2520, Biochemistry, 3 hour course (Instructor)

- Spring 2015, 160 students, 21 lectures
- Fall 2015, 71 students, 22 lectures
- Fall 2016, 109 students, 22 lectures
- Fall 2017, 101 students, 22 lectures

BSCI3965, Undergraduate Seminar in Membrane Biochemistry, 2 hour course (Instructor)

- Spring 2017, 10 students, 16 lectures

BCHM349, Molecular Biophysics Journal Club, 1 hour course (Visiting faculty instructor)

- Spring 2015, 15 students, 1 session
- Spring 2017, 12 students, 1 session

### Ongoing mentoring in coursework

BSCI3860, Introduction to Research, 1 hour course (Lab mentor)

- Spring 2017, 1 student

BSCI3861, Directed Laboratory Research (Lab mentor)

- Fall 2015, 1 student, 3 hours
- Spring 2016, 1 student, 3 hours
- Fall 2016, 1 student, 3 hours

BSCI3961, Independent Laboratory Research (Lab mentor)

- Spring 2017, 1 student, 3 hours

CHEM3860, Undergraduate Research (Lab mentor)

- Fall 2015, 1 student, 3 hours
- Spring 2016, 1 student, 3 hours
- Fall 2016, 1 student, 1 hour (to supplement honors research in chemistry)
- Fall 2017, 1 student, 3 hours

CHEM4980, Honors Research (Lab mentor)

- Fall 2016, 1 student, 2 hours
- Spring 2017, 1 student, 2 hours

BCB3201, Undergraduate research (Lab mentor)

- Fall 2017, 1 student, 2 hours

#### Past courses

CPB306, Chemical & Physical Biology, 3 hour course (Visiting lecturer)

- Fall 2014, 25 students, 2 cell biology lectures
- Fall 2015, 2 cell biology lectures and one two-hour paper discussion

BSCI280, Directed research (Lab mentor)

- Spring 2015, 1 student, 3 hours

BSCI282, Independent Reading, 1 hour course (Instructor)

- Spring 2015, 1 student, 16 sessions

BSCI320, Seminar in Biological Sciences, 1 hour course (Instructor)

- Fall 2014, 16 graduate students, 16 sessions

University of Cambridge (2004-2013)

- Supervisions, Natural Sciences, Molecules in Medical Science (Trinity College, 2004-2005)
  - Three students
- Supervisions, Natural Sciences, Part IA, Biology of Cells (Jesus College, 2009-2013)
  - Three students (2009-2010)
  - Six students (2010-2013)

#### Postdoctoral researchers

1. Tara Archuleta (2014-2017)

- Vanderbilt Functional Neurogenomics training grant 5T32MH65215-12 (July 2014-2016)
- Minority Supplement to NIH/NIGMS 1R35GM119525 (Feb-July 2017)

#### Graduate students

1. Meredith Frazier (2014-present)

- Vanderbilt Molecular Biophysics training grant T32GM008320 (2014-2016)
- Best Poster Award at Biological Sciences Annual Retreat (2014)
- Passed qualifying exam (August 2015)
- Biological Sciences Ann Bernard Martin Award for Excellence in Graduate Research (2015)
- Runner Up, Best Poster Award, Biochemistry retreat (2017)

2. Rodger Burcham (spring 2015-present)

- Passed qualifying exam (August 2016)

3. Betty Xie (spring 2016-present)

4. Natalie Wallace (spring 2017-present)

- Vanderbilt Molecular Biophysics training grant T32GM008320 (2017-present)

#### Rotation graduate students

1. Meredith Frazier, Interdisciplinary Graduate Program, spring 2014

2. Rodger Burcham, Biological Sciences, fall 2014 and spring 2015 (2 rotations)

3. Lauren Salay, Interdisciplinary Graduate Program, spring 2015
4. Mark dela Cerna, Chemical & Physical Biology, spring 2015
5. Brennica Marlow, Chemical & Physical Biology, fall 2015
6. Betty Xie, Biological Sciences, spring 2016
7. Manuel Castro, Interdisciplinary Graduate Program, fall 2016
8. Natalie Wallace, Interdisciplinary Graduate Program, fall 2016
9. Alyssa Rodriguez, Interdisciplinary Graduate Program, spring 2017
10. Noah Bradley, Interdisciplinary Graduate Program, spring 2017

#### Undergraduate student researchers

5. Katelyn Reneslakis
  - CHEM3860 (fall 2017)
  - Volunteer (spring 2017)
4. Christian Jung
  - BCB3201 (fall 2017)
  - BSCI3860 (spring 2017)
3. Anderson Monken
  - CHEM3860 (fall 2015, spring 2016, fall 2016)
  - CHEM4980 (fall 2016, spring 2017)
  - VUSRP Littlejohn Research Scholar (2016)
  - Beckman Scholar finalist (2016)
  - Accepted into NIH OxCam program (declined)
2. Allison Isabelli
  - Research technician (May-August 2016)
  - BSCI3861 (fall 2016) and BSCI3961 (spring 2017)
1. Jeffrey Yung
  - BSCI280 (spring 2015), BSCI3861 (fall 2015, spring 2016)
  - Accepted into Cincinnati Children's Hospital Medical Center Summer Undergraduate Research Fellowship (10 week program, \$4000 stipend, summer 2015)

#### Other mentoring

1. Bartholomew Roland, NIH F32 Postdoctoral Fellowship (Graham lab)
  - Role: Key Person/Consultant
2. Emily Bishop, undergraduate
  - Role: Mentor for INDS280A
3. Jonathan Knowlton, NIH F31 Fellowship (Dermody lab)
  - Role: Key Person/Consultant



## Service

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### Department of Biological Sciences

- Faculty search committee, BSCI/CHEM joint search in Biochemistry & Chemical Biology (2017)
- Participated in three BSCI faculty searches (2014, 2015, 2016)—attended seminars, chalk talks, dinners; held individual meetings with all interviewed applicants (~19 total)
- Hosted seminar speaker Karin Reinisch (Professor, Yale University), fall 2014
- Hosted seminar speaker Fred Hughson (Professor, Princeton University), spring 2015
- Hosted seminar speaker Jim Hurley (Professor, UC Berkeley), fall 2015
- Hosted seminar speaker Linton Traub (Associate Professor, Pittsburgh), March 2016
- Hosted seminar speaker Brett Collins (Associate Professor, Univ. Queensland), July 2017
- Departmental recruiting—conducted graduate student candidate interviews (~4 total)
- Undergraduate advisor, Lauren White, Molecular & Cellular Biology major (2014-present)
- Undergraduate advisor, Christopher Awounou, Molecular & Cellular Biology major (2014-present)
- Undergraduate advisor, Saira Suri, Biological Sciences major (2015-present)
- Undergraduate advisor, Camron Shirkhodaie, Molecular & Cellular Biology major (2016-present)
- Undergraduate honors committee (BSCI296), Christina Snider, 2013-2014
- Undergraduate honors committee (BSCI296), Caitlin Azzo, 2013-2014
- Undergraduate honors committee (BSCI296), Lyle Kotsch, 2014-2015
- Undergraduate honors committee (BSCI4999), Ariel Helms, 2015-2016
- Undergraduate honors committee (BSCI4999), Nicholas Diab, 2016-2017
- Invited to give departmental seminar by Association of Biology students, spring 2014
- Letters of recommendation for ~23 undergraduate students (professional & graduate school)
- Curriculum committee, 2015-2018

### Vanderbilt University College of Arts & Science and School of Medicine

- Faculty VUceptor (2017-2018 academic year)
- Advisory Board, Biochemistry and Chemical Biology Program (2016-present)
- Beckman Scholars Program, Associate Director (2016-present)
- Presenter, Vanderbilt Biomedical Science Advisory Board Annual Meeting (December 2016)
- Research Night at Ingram Commons (fall 2016)
- Dean's search, junior faculty discussion participant with external consulting firm, fall 2014
- Academic Night at Ingram Commons for incoming freshman, fall 2014
- Interdisciplinary Graduate Program recruiting (2014, 2015, 2017)— student interviews (~10 total), faculty research talks, BSCI primer talks, dinners
- Dept. of Biochemistry, faculty reviewer for BCHM8327 (Seminar/Scientific Communication)
- Dept. of Biochemistry faculty search (2014)—attended recruitment dinners and held meetings with candidates offered a position
- Ph.D. committee, Claire Strothman, Cell & Developmental Biology (Zanic lab, 2017-present)
- Ph.D. committee, Diego del Amado, Chemistry (Meiler lab, 2017-present)
- Ph.D. committee, Justin Marinko, Biochemistry (Sanders lab, 2017-present)
- Ph.D. committee, Bryan Gitschlag, Biological Sciences (Patel lab, 2016-present)
- Ph.D. committee, Jordan Best, Biological Sciences (Graham lab, 2016-present)
- Ph.D. committee, Scott Hinger, Biological Sciences (Patton lab, 2016-present)

- Ph.D. committee, Stephanie Lamb, Pathology, Microbiology, & Immunology (Aiken lab, 2016-present)
- Ph.D. committee, Garrett Warren, Biological Sciences (Eichman lab, 2015-present)
- Ph.D. committee, MariaSanta Mangione, Cell & Developmental Biology (Gould lab, 2015-present)
- Ph.D. committee, Mikin Patel, Biological Sciences (Webb lab, 2015-present)
- Ph.D. committee, Jonathan Knowlton, Pathology, Microbiology, & Immunology (Dermody lab, 2015-present)
- Ph.D. committee, Kevin Kelly, Biological Sciences (Johnson lab, 2015-present)
- Ph.D. committee, Catherine Deatherage, Biochemistry (Sanders lab, 2015-2016)
- Ph.D. committee, Cheryl Law, Biochemistry (Sanders lab, 2014-present)
- Ph.D. committee, Diana Tafoya, Biological Sciences (Eichman lab, 2014-present)
- Invited speaker, Molecular Biophysics Training Grant seminar series: Feb 2014, May 2017
- Invited speaker, Tennessee State University, Dept. of Biological Sciences, Nov 2014
- Invited speaker, Dept of Biochemistry, Frontiers in Biochemistry seminar series, Dec 2014
- Vanderbilt Trafficking Club—monthly gathering of 8 labs across departments with broad interests in membrane trafficking; each group presents data and provides refreshments once per year

#### Center for Structural Biology and Molecular Biophysics Training Grant

- Presenter, CSB external advisory board meeting, December 2017
- Coordinator, MBTG/CSB seminar series (2014-2015). Invited, attended, and introduced speakers at twelve monthly faculty seminars and six bi-monthly RCR sessions; oversaw student committee and attended twelve monthly graduate student talks
- Karpay Award selection committee (2015-2018)
- Co-hosted monthly drinks twice per year with Eichman lab
- Maintain and make available our low-volume NanoITC isothermal titration calorimetry instrument to the CSB community; run quarterly training sessions; assist with experimental design and data interpretation
- Regular attendance at quarterly CSB faculty/staff and crystallography faculty group meetings

#### Chemical & Physical Biology Program

- Gave two cell biology guest lectures for CPB306, fall 2014, 2015 (~25 students)
- Attended student-led annual retreat, spring 2015

#### Professional

- Editorial Board Member, *Traffic* (August 2017-present)
- Guest Editor, *Traffic* structural biology review series (spring/summer 2018)
- Member, Planning Committee, 2018 Pew Annual Meeting
- *Ad hoc* reviewer, NIH Membrane Biology & Protein Processing Study Section (February 2017)
- Member, Biophysical Society, 2016-present
- Member, American Society for Cell Biology (ASCB), 2015-present
- *Ad hoc* reviewer for *eLife*, *Proc Natl Acad Sci U S A*, *J Cell Biology*, *Nature Chemical Biology*
- *Ad hoc* reviewer for Stanford Synchrotron Radiation Light Source (SSRL)
- *Ad hoc* reviewer for Deutsche Forschungsgemeinschaft (DFG) funding body

Community & philanthropy

*Nashville Symphony*

1. Associate Board of Directors (2016-present)
  - Education Liaison (2017-present)
  - Member (2016-2017)
2. Patron & Governing Member (2016-present)
3. Governing Member Ambassadors Program (2016-2017)
4. Crescendo Club (July 2014-2016)
  - Vice President of Strategic Partnerships (July 2015- July 2016)
  - Board member (August 2014-July 2016)

*Second Harvest Food Bank, Nashville, TN*

- Harvester of Hope (2016-present)