

ASHLEY R. VAUGHN

CURRICULUM VITAE

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EDUCATION

Ph.D. Educational Studies, University of Cincinnati, 2018

Primary Concentration: Developmental and Learning Sciences

Secondary Concentration: Quantitative and Mixed Methods Research Methodologies

Dissertation Title: *The effectiveness of a refutational text with appeals to expertise in establishing credibility for conceptual change*

Dissertation Committee: Marcus L. Johnson (chair), Sally Moomaw, and Mark Sulzer

Graduate Certificate: Assessment and Evaluation; Developmental and Learning Sciences

M.S. Biology, University of Saint Joseph, 2013. Graduate Certificate: Emerging Diseases

M.A. Education, Mount Saint Joseph University, 2009

B.S. Natural Science, Mount Saint Joseph University, 2004

ACADEMIC APPOINTMENT

Visiting Assistant Professor, Miami University Regionals, Department of Social and Behavioral Sciences. August, 2018-Present

AREAS OF RESEARCH INTEREST

Conceptual Change Motivation Self-Efficacy Science Education
Women and Underrepresented Minorities in Higher Education

PROFESSIONAL MEMBERSHIP

American Psychological Association (APA)

Division 15

Division 35

American Educational Research Association (AERA)

Division C

Division D

Motivation SIG

Learning Science SIG

Science Teaching & Learning SIG

National Consortium for Instruction and Cognition (NCIC)

Cognitive Development Society (CDS)

European Association for Research on Learning and Instruction (EARLI)

Conceptual Change SIG

Motivation & Emotion SIG

National Science Teacher Association (NSTA)

Society of College Science Teachers (SCST)

Beta Beta Beta Biological Honor Society

AWARDS AND HONORS

2018 APA Division 15 Graduate Student Poster Award

2018 Graduate Student Seminar Participant, *American Educational Research Association, Division C Learning and Instruction*

2018 Graduate Student Government Association Excellence Award for Exemplary Scholarship in Social and Behavioral Sciences, *University of Cincinnati*

2018	Graduate Student Government Association Excellence Award for Exemplary Service in Social and Behavioral Sciences, <i>University of Cincinnati</i>
2015-18	Graduate Assistant Award, <i>University of Cincinnati</i>
2014-15	Graduate Incentive Award, <i>University of Cincinnati</i>
2008	ETS Recognition of Excellence (ROE) Award
2001	Schmidlapp Scholarship, <i>University of Mount Saint Joseph</i>
2001	Seton Scholarship, <i>University of Mount Saint Joseph</i>
2001	Presidential Scholarship, <i>University of Mount Saint Joseph</i>

FUNDED GRANTS

2017	Women of Excellence Giving Circle, Xavier University. with Carla Gerberry (co-PI), Mary Stroud (co-PI), & Gary Lewandowski (co-PI). <i>The Xavier Xploratory</i> . (\$18,410)
2017	Graduate Student and Faculty Research Mentoring Grant, University of Cincinnati College of Education, Criminal Justice, and Human Services (CECH). with Marcus L. Johnson (faculty sponsor). <i>Effectiveness of a refutational text on teachers' understanding of influenza</i> . (\$750.00)
2015	Women of Excellence Giving Circle, Xavier University. with Carla Gerberry (co-PI) & Gary Lewandowski (co-PI). <i>Noyce Super Saturdays</i> . (\$6,570)

PEER-REVIEWED PUBLICATIONS: PUBLISHED & UNDER REVIEW

- Vaughn, A. R.**, & Robbins, J. R. (2017). Preparing pre-service K-8 teachers for the public school: Improving evolution attitudes, misconceptions, and legal confusion. *Journal of College Science Teaching*, 47(2), 7–15. DOI: [10.2505/4/jcst17_047_02_7](https://doi.org/10.2505/4/jcst17_047_02_7)
- Vaughn, A. R.**, & Johnson, M. (In press). Communicating and enhancing teachers' attitudes and understanding of influenza using refutational text. *Vaccine*.
- Vaughn, A. R.**, Taasoobshirazi, G., and Johnson, M. (under review). Motivation and impostor syndrome in academic women.

PUBLICATIONS IN PREPARATION

- Vaughn, A. R.**, Brown, R. & Johnson, M. (in preparation). Brain imaging, science cognition, and conceptual change: A literature review
- Vaughn, A. R.** (in preparation). Motivation and leadership in Supplemental Instruction leaders.
- Gerberry, C., Stroud, M. & **Vaughn, A. R.** (in preparation). STEM majors' motivations for becoming Noyce teacher scholars.

PEER-REVIEWED CONFERENCE PRESENTATIONS

- Vaughn, A.R.** & Johnson, M. (October, 2018). *The Effectiveness of a Refutation Text with Citations: Conceptual Change and Credibility*. Paper accepted to the Mid-western Educational Research Association Annual Meeting, Cincinnati, OH.
- Vaughn, A.R.**, Taasoobshirzai, G., & Johnson, M. (October, 2018). *Relationship between motivation and impostor syndrome in female graduate students*. Paper accepted to the Mid-western Educational Research Association Annual Meeting, Cincinnati, OH.

- Vaughn, A.R.**, Johnson, M., & Brown, R. (October, 2018). *Brain Imaging, Science Cognition, and Conceptual Change*. Poster accepted to the Mid-western Educational Research Association Annual Meeting, Cincinnati, OH.
- Vaughn, A. R.**, & Johnson, M. (August, 2018). *Establishing credibility in refutational texts for conceptual change*. Poster accepted to the American Psychological Association Convention, San Francisco, CA.
- **Awarded 2018 APA Division 15 Graduate Student Poster Award**
- Vaughn, A. R.**, Taasobshirazi, G., & Johnson, M. (August, 2018). *Imposter phenomenon, motivation, and women in academia*. Poster accepted to the American Psychological Association Convention, San Francisco, CA.
- Vaughn, A.R.** (April, 2018). *Establishing credibility in refutational texts: A mixed methods study*. Poster accepted to the 2018 annual meeting of the American Educational Research Association (AERA), New York City, NY.
- Vaughn, A.R.**, & Johnson, M. (April, 2018). *Citations as a source of credibility in refutation texts*. Paper presented at the annual meeting of the National Consortium for Instruction and Cognition. New York City, NY.
- Vaughn, A. R.**, Brown, R., & Johnson, M. (October, 2017). *Brain imaging, science cognition, and conceptual change: A literature review*. Poster presented at the Cognitive Development Society Biennial Conference, Portland, OR.
- Vaughn, A. R.**, & Johnson, M. (April, 2017). *Effectiveness of a refutational text on teachers' understanding of influenza*. Poster presented at 2017 annual meeting of the American Educational Research Association (AERA), San Antonio, TX.
- Vaughn, A. R.** & Robbins, J. (October, 2015). *Pre-service k-8 teacher attitudes and knowledge of evolutionary theory*. Paper presented at the Mid-Atlantic Association for Science Teacher Education Annual Meeting.

OTHER CONFERENCE PRESENTATIONS

- Vaughn, A. R.**, & Johnson, M. (April, 2017). *Effectiveness of a refutational text on teachers' understanding of influenza*. Poster presented at the Spring Research Conference, Cincinnati, OH.
- Vaughn, A. R.** (April, 2017). *Brain imaging, science cognition, and conceptual change: a literature review*. Paper presented at the Spring Research Conference, Cincinnati, OH.
- Hedges, S., **Vaughn, A. R.**, Johnson, M., & Meyer, H. (2016, May). *Design-based information technologies experiences (DITLE) for urban youth*. Presented at the UC STEM Conference 2016, Cincinnati, OH.
- Vaughn, A. R.**, Hedges, S., Meyer, H., & Johnson, M. (March, 2016). *Urban summer experiences for preservice STEM teachers*. Paper presented at the Spring Research Conference, Louisville, KY.
- Vaughn, A. R.**, Hedges, S., Meyer, H., & Johnson, M. (February, 2016). *School's out for summer? Providing urban summer experiences for preservice STEM teachers*. Poster session presented at the University of Cincinnati Expo and Poster Forum.
- Gerberry, C. & **Vaughn, A. R.** (October, 2014). *Supporting Noyce fellows and their cooperating teachers*. Paper presentation at the Midwest Noyce Conference, Omaha, NE.
- Gerberry, C., **Vaughn, A. R.**, Donovan, L., O'Toole, M., & Moninghoff, A. (October, 2014). *Noyce in the community: An overview of Xavier University's summer internship*. Poster session at the Midwest Noyce Conference, Omaha, NE.

INVITED TALKS

Vaughn, A. R. (2017). Academic publishing. Talk presented to doctoral students in the College of Education, Criminal Justice, and Human Services (CECH). University of Cincinnati.

Vaughn, A. R. (2015). Why it is important to teach evolution. Talk presented at Evolution Discussion and Workshop, University of Cincinnati.

RESEARCH GRANT EXPERIENCE

Evaluator, pending, Collaborative Replications and Education Project, an Exploration and Design Tier for Engaged Student Learning, National Science Foundation, Improving Undergraduate STEM Education (IUSE), with Jordan Wagge (PI; Avila University) and Jon Grahe (Co-PI).

Program Coordinator, Xavier University, January 2013-August 2018, “Xavier University Robert Noyce Teacher Scholarship Program,” \$1,195,559, National Science Foundation, Noyce Scholars Phase I Grant DUE-1239995, with Carla Gerberry (PI), Michael Flick (Co-PI), and Mary Stroud (Co-PI).

Graduate Assistant, University of Cincinnati, May 2015-May 2016, Design-Based Information Technologies Learning Experiences (DITLE), \$1,200,000, National Science Foundation, Innovative Technology Experiences for Students and Teachers (ITEST) – STEM, with Hazem Said (Co-PI), Chengcheng Li (Co-PI), Marcus Johnson (Co-PI), and Helen Meyer (Co-PI).

TEACHING

Course		Dates Taught	Institution
ASO 401	Applied Social Research Methods	8/2018-	Miami University
ASO 301	Applied Social Research Methods	8/2018-	Miami University
ASO 201	Introduction to Applied Social Research	8/2018-	Miami University
EHS 667 [^]	Behavioral Statistics I	07/2018-08/2018	Miami University
EDST 8034 ^{+^}	Measurement & Assessment	05/2018-	University of Cincinnati ^a
EDST 1002	Educational Psychology	08/2017-12/2017	University of Cincinnati
EDST 2004 ⁺	Lifespan Human Development	01/2018-04/2018	University of Cincinnati
HPR 205 ⁺	Human Anatomy & Physiology	01/2015-08/2017	Ashford University
SCI 207 ⁺	Man & the Environment	01/2015-03/2015	Ashford University
BIO 130	Introduction to Life Science	08/2014-12/2014	Xavier University
BIO 141	Anatomy & Physiology	08/2013-12/2013	Xavier University
BIO 161	Anatomy & Physiology	08/2013-05/2014	Miami University
BIO 145	Anatomy & Physiology	08/2010-12/2013	Beckfield College
BIO 163/4	Anatomy & Physiology I & II	08/2010-12/2013	Beckfield College
BIO XXX	Cardiac Anatomy & Physiology	08/2010-12/2013	Beckfield College

BIO XXX Anatomy & Physiology 08/2012-05/2014 Miami-Jacobs Career College

+fully online ^graduate level course

^a dual appointment with Cincinnati Children's Hospital and Medical Center

SERVICE

National/International

- 2018 American Educational Research Association 2018 Annual Meeting, Division C
- 2018 American Educational Research Association 2018 Annual Meeting, Motivation SIG
- 2018 Proposal Review, European Association for Research on Learning and Instruction: International Conference on Conceptual Change (ICCC).
- 2018 Proposal Review, European Association for Research on Learning and Instruction: International Conference on Motivation (ICM).
- 2017 Proposal Review, American Educational Research Association 2018 Annual Meeting, Division C
- 2016 Proposal Review, National Association of Research in Science Teaching 2017 International Conference
- 2015 Proposal Review, National Association of Research in Science Teaching 2016 International Conference
- 2015 Reviewer, *Contemporary Educational Psychology*, Under supervision of Marcus Johnson

Regional

- 2018 Ad-Hoc Reviewer, Mid-Western Educational Researcher
- 2018 Session Chair, Innovation in the STEM learning environment, Mid-western Educational Research Association Annual Meeting
- 2018 Proposal Review, Mid-Western Educational Research Association Annual Meeting
- 2015 Proposal Reviewer, Mid-Atlantic Association of Science Teacher Educators (MA-ASTE) Regional Conference

Miami University

- 2018 Center for Teaching and Learning Small Group Instructional Diagnosis Facilitator

University of Cincinnati

- 2018 Graduate Faculty Mentoring Award Review Committee
- 2018 President, University of Cincinnati, College of Education, Criminal Justice, and Human Services Graduate Student Association (CECH GSA; 2017-18)
- 2017 Spring Research Conference Planning Committee
- 2017 Graduate Student Misconduct Hearing Panel
- 2017 Vice President, University of Cincinnati, CECH GSA (2016-17)
- 2017 Treasurer, University of Cincinnati, CECH GSA (2016-17)

Xavier University

- 2015 Search Committee, Xavier University Noyce Program Coordinator

BOOK/CHAPTER REVIEWS

- 2018 Summer Reviewer for *Beyond Evolution: Understanding and Addressing Interactions between Science and Religion in Science Education*. NSTA Press.

EMPLOYMENT EXPERIENCE

2018-Present	<i>Visiting Assistant Professor</i> , Miami University Regionals, Department of Social and Behavioral Sciences
2018-Present	<i>Adjunct Instructor</i> , Miami University, Department of Educational Leadership
2018-Present	<i>Visiting Scholar</i> , University of Cincinnati and Cincinnati Children's Hospital and Medical Center (dual appointment)
2017-2018	<i>Graduate Teaching Assistant</i> , University of Cincinnati EDST1002 Educational Psychology – Instructor of Record EDST2004 Lifespan Human Development
2017-2018	<i>Graduate Assistant</i> , University of Cincinnati Online Learning Support: School of Education (CECH)
2013-2018	<i>Noyce Teacher Scholarship Program Coordinator</i> , Xavier University
2016-2017	<i>Graduate Assistant</i> , University of Cincinnati Learning Assistance Center: Supplemental Instruction
2015-2016	<i>Graduate Assistant</i> , University of Cincinnati DITLE/iTest Grant
2014-2015	<i>Candidate Teacher Supervisor</i> , University of Cincinnati
2013-2017	<i>Faculty</i> , Ashford University
2013-2014	<i>Instructor</i> , Xavier University
2013-2014	<i>Instructor</i> , Miami University
2012-2014	<i>Instructor</i> , Miami-Jacobs Career College
2010-2013	<i>Instructor</i> , Beckfield College

K-12 TEACHING EXPERIENCE

2010	<i>Science Teacher</i> , Summit Academy Transitional High School, Dayton, OH. Taught grades 9-12 Science
2008-10	<i>Science Teacher</i> , Life Skills Center of Hamilton County, Cincinnati, OH. Taught grades 9-12 Science
2008	<i>Science Teacher</i> , Hamilton County Math and Science Academy, Cincinnati, OH. Taught grades 5-7 Science
Licensure: Life Science AYA (Ohio)	