

# Ramón S. Barthelemy, Ph.D.

*Physics Education Researcher and Science Policy Scholar*

Focused on Equity and Inclusion in Graduate Physics and Astronomy Education

*[Fellow of the American Physical Society](#), [Fulbright](#), and [Science Policy Fellow](#)*

## Education

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Post-Doc	2015-16	<b>AAAS Science Policy Fellowship</b> <i>U.S. Department of Education, Washington D.C.</i>
Post-Doc	2014-15	<b>Fulbright Fellowship</b> <i>Department of Teacher Education, University of Jyväskylä, Finland</i>
PhD	2014	<b>Physics Education Research</b> <i>Western Michigan University, Kalamazoo MI. Advisor: Dr. Charles Henderson</i>
BS	2010	<b>Astrophysics</b> <i>Michigan State University, East Lansing MI. Advisors: Dr. Alexandra Gade and Dr. Megan Donahue</i>

## Experience

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<b>University of Utah</b> <i>Assistant Professor of Physics</i> Salt Lake City, Utah	2019- Present	Lead developer of the PER PhD program. ARC Network Virtual Visiting Scholar, Fulbright Scholar, AAPT Committee Member: Diversity in Physics, and APS Member at Large: Forum on Diversity and Inclusion. Written over \$1M in grants, published 9 papers, and has given over 30 talks. Research focused on equity and inclusion in graduate education utilizing survey and interview methodology. Supported rebuild of the undergraduate curriculum and designed a post-bac to PhD program.
<b>The Education Advisory Board</b> <i>Consultant</i> Washington, D.C.	2017-19	Co-managed \$2.5M portfolio of university research executives, including relationship building and research. Designed and managed national studies on higher education including supervision of research employee. Traveled nationwide to present research and create sustainable relationships with clients. Designed presentations and written deliverables including blogs, books, executive summaries and marketing materials.
<b>U.S. Department of Education</b> Post-Doc, STEM Office <i>APS/AIP Sponsored AAAS Fellow</i> Washington, D.C.	2015-16	Worked with executive branch committees and on national grant-giving programs. Wrote national policy on equity in STEM education with Office of Civil Rights to be distributed to K-12 classrooms. Built connections between DoEd and other federal agencies.
<b>University of Jyväskylä</b> Department of Teacher Education <i>Fulbright</i> Jyväskylä, Finland	2014-15	Conducted large research survey of Finnish physics departments to study student motivations to major in physics. Taught multiple graduate level courses and conducted U.S. based survey for the APS on LGBT+ physicists
<b>University of Michigan</b> Department of Physics <i>Visiting Scholar</i>	2014 Jan-Sep	Implemented a climate survey in cooperation with the REBUILD NSF WIDER grant, a \$2 Million grant to reform undergraduate STEM courses. <i>Advisor: Dr. Tim McKay</i>

**Total Grant Funding: \$1,250,398**

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## Recent Fellowships and Awards

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American Physical Society Fellow	2022	<a href="#">For research on POC, women, and LGBT+ physicists</a>
Melon Intersectional Pedagogy Fellow	2022-23	Work with cohort across campus on pedagogy
Betty Vetter Research Award	2022	<a href="#">WEPAN Research Excellence Award</a>
Doc Brown Futures Award	2021	<a href="#">Award from the American Association of Physics Teachers</a>
ARC Network Virtual Visiting Scholar	2020-21	<a href="#">Stipend to conduct literature review on LGBT in STEM</a>
Fulbright Finland Alumni Award	2020	<a href="#">Fulbright Alumni Award</a>

## External Institution Visits

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Institution	Department	Date	Goals
University of Helsinki, University of Jyväskylä, Finland	Physics	May-June 2022	Participate in EDI event and present research at physics colloquia. Attend Fulbright event to receive alumni award.
University of Edinburgh Scotland	Physics and Astronomy, Science Studies	September 2021	Develop connection to establish international ties and support their growing PER program
University of Helsinki Finland	Physics	July 2019	Develop connection to pursue Fulbright Finland Alumni project and establish international ties
Seattle Pacific University Ann Arbor, MI	Physics	July 2015	Helped to guide research into a direction inclusive of all potential students in USA.

## Grants Secured- ~ \$1,250,398

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### At the University of Utah- ~\$1,212,398 (\$128,798 internal)

NSF Supplement	8/1/22- 8/1/23	PI	#2023234	\$122,846	Supports post-doctoral scholar to study women in physics and astronomy
NSF ECR	8/1/21 to 8/1/24	PI	#2055237	\$391,559 (of ~\$500,00)	<a href="#">Collaborative Research: Mapping professional support networks of women and (LGBT) gender and sexual minorities in physics</a>
Admin. Supplement to Promote Diverse Research Comm.	6/1/21 to 6/2/22	PI	Internal (VPR)	\$128,798	Postdoctoral scholar award to fund research work and an ADVANCE grant application.
NSF EHR BCSER	8/1/20 to 8/1/22	PI	#2023234	\$349,552	<a href="#">Ten Years Later: The Career Trajectories of Women and People of Color in Physics, Astronomy, and STEM</a>
AWIS Virt. Scholar	8/1/20 to 8/1/21	PI		\$20,000	<a href="#">LGBT+ Faculty and Students in STEM: Policies to Support Success and Inclusion</a>
NSF RAPID Grant on Graduate Education	1/1/20 to 7/1/21	PI	#2000328	\$198,143	<a href="#">Funding to study graduate education policies at the University of Utah</a>
Fulbright Alumni Award	May to June 2022	PI		\$1,500	Travel to the University of Helsinki for collaboration.

### Previous to the University of Utah- \$38,000

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Fulbright Fellowship	2014-15	PI	\$22,000	Funded travel and stipend for physics research in Finland.
Michigan Space Grant	2012-13	PI	\$10,000	Funded travel for in person interviews, research materials, transcription fees, and conference attendance for dissertation research.
Graduate Finance Grant	2013	PI	\$1,000	Funded guest speaker and departmental dinner for graduate students and faculty.
PERLOC Research Grant	2012	PI	\$2,500	Funded mixed-methods assessment of graduate students in PER. Conducted in person interviews across country and online survey.
AGEP Research Grant	2012	PI	\$1,500	Funded travel to interview graduate women in physics and astronomy for dissertation research.
WMU Graduate Research Fund	2011	PI	\$1,000	Funded pilot study for dissertation work to travel and conduct in person interviews.

## Grants Applied and in Preparation

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NSF ADVANCE	2023	Co-PI	In-Review	\$3,000,000 (.3 Share)	Institutional Transformation Proposal
NSF STS Division	2023	Co-PI	In-Review	\$400,000	Money to start a science studies center
NSF Postdoctoral Program	2023	Co-PI	Writing	\$2,750,000	Funding for postdoc cohort program
NSF CAREER (3 <sup>rd</sup> Application)	2022	PI	Writing	\$1,000,000	Queer and POC Identity in STEM

## Supervision

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### Post Docs

						<i>Placement</i>
Dr. Camila Manni	PER	PI	Current	NSF EHR Core	Tenure Track Faculty, Higher Education, Michigan State University	
Dr. Justin Gutzwa	Higher Ed	PI	Current	VPR Supplement		
Dr. Brian Z. Roman	PER	PI	2021-22	VPR Supplement Grant	K-12 Teacher, Physics Wasatch Academy	
Dr. Miguel Rodriguez	PER	PI	2020-22	NSF BCSER Grant	Tenure Track Faculty, Physics, Cal State University DH	
Dr. MacKenzie Lenz	PER	PI	2020-21	NSF Rapid Grant	Instructional Faculty, Physics, SUNY Korea	

## Graduate Students

Aidan McBride	Astronomy	Member	Current	Utah PhD Student	
Anne Duerr	Astro	Member	Current	Utah PhD Student	
Alexis Buzzell	PER	Chair	Current	Utah PhD Student	
Madison Swirtz	PER	Chair	Current	Utah PhD Student	
Lorraine Laguerre	Chemistry	Member	Current	Utah PhD Student	
Hannah Fritze	Astronomy	Member	Current	Utah PhD Student	
Benjamin Gibson	Astronomy	Member	Current	Utah PhD Student	
Hillary Tribbs	Education	Member	'22 Grad	UCLA Ed.D. Student	EDI Director at Cal Tech
Josh Edwards	Chemistry	Member	'22 Grad	Utah PhD Student	Instructional Faculty, Texas A&M
Mirna Mohammed	PER	Chair	'21 Grad	Utah MS Student	PhD Program, WMU

## Undergraduate Students

Lily Donis	PER	Advisor	2023	Utah ACCESS Student
Evan LaForge	PER	Advisor	2022	REU
Jessica Payton	PER	Advisor	2021	Undergrad RA
Matthew Mikota	PER	Advisor	2020	REU in PER
Danielle Brown	PER	Advisor	2020	Utah Physics UG
Alexandra Nelson	PER	Advisor	2020	Utah Physics UROP
Tyra Imbico	PER	Advisor	2020	Utah ACCESS Student

## Publications

*Underlined authors are students, post-doc scholars, or trainees*

*\*Last author indicates I am the senior and corresponding author when publishing only with trainees*

### Book Chapter and Reports

1. **Barthelemy, R.**, Blue, J., Traxler, A. & Swirtz, M. (ACCEPTED) Research on Gender, Intersectionality, and LGBT+ Persons in Physics Education Research. In *Handbook of PER, AIP Publishing*.
2. **Barthelemy, R.** & Swirtz, M. (2021). [LGBT+ Faculty and Students in STEM: Heteronormativity, Exclusion, and Isolation](#). *ARC Network*.
3. Atherton, T. J., **Barthelemy, R. S.**, Deconinck, W., Falk, M. L., Garmon, S., Long, E., ... & Reeves, K. (2016). LGBT climate in physics: Building an inclusive community. *American Physical Society, College Park, MD*.

### In Preparation

1. **Barthelemy, R.**, Swirtz, M., Gutzwa, J., and Atherton T. (2022). Queering Physics Education Research. *Physical Review Physics Education Research*.

### In Review

1. Lenz, M., Payton, J., & **Barthelemy, R.** (2023) Graduate Program Reform in One Department of Physics and Astronomy: Students' experiences with new policy. *Physical Review Physics Education Research*.\*
2. Rodriguez, M., Mohamed, M. & **Barthelemy, R.** (2023). The Impact of Politics and COVID-19 on Graduate STEM International Students of Color, *Journal of Women and Minorities in Science and Engineering*.\*

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## Published and Accepted

### Accepted

NA

### Published

1. **Barthelemy, R., Lenz, M., Knaub, A., Gerton, J., & Sandick, P.** (2023). [Graduate program reform in one department of physics and astronomy: From tragedy to more progressive policies and an evolving culture.](#) *Physical Review Physics Education Research*, 19(1), 010102.
2. **Edwards, J., Laguerre, L., Barthelemy, R., De Grandi, C., & Frey, G.** (2022). [Relating students' social-belonging and course performance across multiple assessment types in a calculus-based introductory physics course.](#) *Physical Review PER*.
3. **Rodriguez, M., Mohamed, M., & Barthelemy, R.** (2023). [Microaggressions Faced by International Students in the US with a Discussion on Critical Race Theory.](#) *Journal of International Students*, 13(3).\*
4. **Barthelemy, R. S., Hughes, B. E., Swirtz, M., Mikota, M., & Atherton, T. J.** (2022). [Workplace climate for LGBTQ+ physicists: A view from students and professional physicists.](#) *Physical Review Physics Education Research*, 18(1), 010147.
5. **Barthelemy, R. S., Swirtz, M., Garmon, S., Simmons, E. H., Reeves, K., Falk, M.L., Deconinck, W., Long, E., & Atherton, T. J.** (2022). [LGBT+ physicists: Harassment, persistence, and uneven support.](#) *Physical Review Physics Education Research*, 18(1), 010124. (Editor's Suggestion and featured *Viewpoint* paper)
6. **Rodriguez, M., Barthelemy, R., & McCormick, M.** (2022). [Critical race and feminist standpoint theories in physics education research: A historical review and potential applications.](#) *Physical Review Physics Education Research*, 18(1), 013101.
7. **Edwards, J. D., Barthelemy, R. S., & Frey, R. F.** (2021). [Relationship between course-level social belonging \(sense of belonging and belonging uncertainty\) and academic performance in General Chemistry 1.](#) *Journal of Chemical Education*, 99(1), 71-82.
8. **McCormick, M., & Barthelemy, R. S.** (2021). [Excluded from "inclusive" communities: LGBTQ youths' perception of "their" community.](#) *Journal of Gay & Lesbian Social Services*, 33(1), 103-122.
9. **Barthelemy, R.** (2020). [LGBT+ Physicists Qualitative Experiences of Exclusionary Behavior and Harassment.](#) *European Journal of Physics* 41.6 (2020): 065703.
10. **Barthelemy, R. S., & Knaub, A. V.** (2020). [Gendered motivations and aspirations of university physics students in Finland.](#) *Physical Review Physics Education Research*, 16(1), 010133.
11. **Barthelemy, R. S., McCormick, M., Henderson, C. R., & Knaub, A.** (2020). [Educational supports and career goals of five women in a graduate astronomy program.](#) *Physical Review Physics Education Research*, 16(1), 010119.

### Peer Reviewed Conference Proceedings

12. **Swirtz, M & Barthelemy, R.** (2022). [Queering methodologies in physics education research.](#) *Physics Education Research Conference Proceedings*.
13. **Barthelemy, R., Mohamed M., Knaub, A., & Henderson, C.** (2020). [Graduate Programs in Physics Education Research: A USA Based Survey.](#) *Physics Education Research Conference Proceedings*.

### Previous to Utah

14. **Barthelemy, R., McCormick, M., & Henderson C.** (2016). [Gender Discrimination in Physics and Astronomy](#) *Physical Review Physics Education Research* 12.2 (2016): 020119
15. **Sax, L., Lehman, K.J., & Barthelemy, R.** (2016). [Women's Interest in Physics: A Comparison to STEM Over Four Decades.](#) *Physical Review Physics Education Research* 12.2 (2016): 020108.
16. **Traxler, A., Cid, X., Blue, J., & Barthelemy R.** (2016). [Enriching Gender in PER: A Binary Past and Complex Future.](#) *Physical Review Physics Education Research* 12.2 (2016): 020114.
17. **Barthelemy, R., Hedberg, G., Greenberg, A., & McKay, T.** (2015). [The Climate Experiences of Student in Introductory Biology.](#) *Journal of microbiology & biology education* 16.2 (2015): 138.
18. **Barthelemy, R., Van Dusen, B., & Henderson, C.** (2015) [A Physics Subfield with Gender Parity: Physics Education Research.](#) *Physical Review Special Topics-Physics Education Research* 11.2 (2015): 020107.
19. **Barthelemy R., McCormick, M., & Henderson C.** (2015). [Barriers Beyond Equity: An Exploratory study of Women Graduate Student's Career Pathways in Astronomy.](#) *International Journal of Gender, Science and Technology* 7.1 (2015): 57-73.
20. **McCormick, M., Barthelemy, R., & Henderson, C.** (2014). [Women's Persistence in Undergraduate Astronomy: The roles of support, interest and capital](#) *Journal of Women and Minorities in Science and Engineering*, 20(4).
21. **Patridge, E., Barthelemy, R., & Rankin, S.** (2014). [Factors Impacting the Academic Climate for LGBTQ STEM Faculty.](#) *Journal of Women and Minorities in Science and Engineering* 20.1 (2014).
22. **Van Dusen, B., Barthelemy, R., & Henderson, C.** (2014). [Educational trajectories of graduate students in physics education research.](#) *Physical Review Special Topics-Physics Education Research* 10.2 (2014): 020106.
23. **Barthelemy, R., Henderson, C., & Grunert, M.** (2013). [How did they get here?: Pathways into physics education research.](#) *Physical Review Physics Education Research* 12.2 (2016): 020113.(Editor's Pick)

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### Conference Proceedings

24. Knaub, A. & **Barthelemy, R.**, (2018). [Persistence and Career Choices of Finnish University Students](#). *Physics Education Research Conference Proceedings*
25. **Barthelemy, R.**, McCormick, M., & Henderson, C. (2014). Understanding Women's Gendered Experiences in Physics and Astronomy Through Microaggressions. Physics Education Research Conference, Minneapolis, MN.
26. **Barthelemy, R.**, Grunert, M., & Henderson, C. (2012). The Research Subfield Choice of Women in Academic Physics: A Pilot Study. *Physics Education Research Conference Proceedings*. Henderson, C.,
27. **Barthelemy, R.**, Mestre, J., & Finkelstein, N. (2011). Physics Education Research Funding Census. *Physics Education Research Conference Proceedings*.

### Peer Reviewed- Nuclear Physics and Astrophysics

28. Kobayashi, N.,...**Barthelemy, R.** (2016). One-Neutron Removal From NE 29: Defining the Lower Limits of the Island Inversion. *Physical Review C*.
29. Kobayashi, N, Kakamura, T.,...**Barthelemy, R.**, et al. (2014) Observation of a p-Wave One-Neutron Halo Configuration in <sup>37</sup>Mg. *Physical Review Letters*. doi: 10.1103/PhysRevLett.112.242501.
30. Kobayashi, N., Nakamura, T.,...**Barthelemy, R.** (2013). Breakup Reactions of Drip-Line Nuclei Near N=20,28. *Few-Body Systems*. doi:10.1007/s00601-013-0699-9.
31. Hoffer, A., Donohue, M, Hicks, A., & **Barthelemy, R.** (2012). Infrared and Ultraviolet Star Formation in Brightest Cluster Galaxies in the ACCEPT Sample. *The Astrophysical Journal*, 199, 23.

### Policy and Media Publications/Apearances

1. Naddaf, M. (2023). [Young physicists say ethics rules are being ignored](#). *Nature*.
2. Langin, K. (2023). [NSF still won't track sexual orientation among scientific workforce, prompting frustration](#). *Science*.
3. Feder, T. (2022). [College instructors adapt their teaching to prevent cheating](#). *Physics Today*.
4. Utah Public Radio (2022). [How to retain women and LGBT+ scientists in physics](#).
5. SCI Guys Podcast (2022). [The Science of LGBT+ Scientists](#). UK Podcast
6. Feder, T. (2022). [To retain and inspire LGBT+ physicists, welcome them](#). *Physics Today*.
7. Dope Labs Podcast Segment (2022). [PRIDE in STEM](#). Spotify.
8. Atherton, T. & **Barthelemy R.** (2022). [Wanted: LGBTQ+ Allies](#). *Physics Magazine*.
9. [NPR KUER News Mention](#).
10. APS Press Conference [LGBT+ Physicists: Harassment, persistence, and uneven support](#). *March Meeting 2022*.
11. Potter, L. (2022). [First study of LGBT+ physicists reveals red flags](#). *University of Utah press release. Also on [phys.org](https://phys.org)*.
12. **Barthelemy, R.S.**, & Zvouloun S. (2022). [Queer Theory and Physics Education](#). *Conversation with genderEd, University of Edinburgh*.
13. **Barthelemy, R.S.** & McCormick, M. (2021). [Experiences of Women in Graduate Astronomy](#). *Interview with AAS Blog*.
14. **Barthelemy R.S.** (2020). [LGBT+ Experience in Physics](#). *Physics world Podcast*.
15. **Barthelemy R.S.** (2016). [From Grass Roots to Changing Policy: LGBT advocacy in physics](#). *Association for Women in Science Magazine. Winter 2017*.
16. **Barthelemy, R.S.** et al (2016). [LGBT Climate in Physics](#). *American Physical Society*.
17. **Barthelemy, R.S.** (2016). [What racial, gender, and sexual orientation bias still exists in physics and what can I do about it?](#)
18. **Barthelemy, R.S.** (2016). [How can I set up an effective mentoring program to support students in my department?](#)
19. Cochran, G. & **Barthelemy, R.** (2014). [The Importance of Different Points of View](#). *Society of Physics Students Observers*.
20. **Barthelemy, R.**, Van Dusen, B., & Henderson, C. (2013). [Graduate Students in Physics Education Research: Preliminary Results From a Web Survey](#). *Published Online at*
21. Atherton, T, **Barthelemy, R.**, Deconinck, W., Long, E. et al. (2013). Supporting LGBT+ Physicists: A Best Practices Guide for Departments. *Published Online*.
22. Simmons, E.H. & **Barthelemy, R.** (2013). [Climate Change for LGBT+ Physicists](#). *Inside Higher Ed Article*.

### Technical Private Sector Reports

Client-facing publications written with extensive research from universities nationwide

**Barthelemy, R.**, (2018). Five Steps for Effective Seed Funding. *EAB Publication*

<https://www.eab.com/research-and-insights/university-research-forum/expert-insights/2018/five-steps-for-effective-seed-funding>

**Barthelemy, R.**, et al. (2017). Telling the Story of Research: Communication in Higher Education. *EAB Publication*. [Proprietary]



## Talks

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*Underlined authors are students, post-doc scholars, or trainees*

### ***Symposium or Plenary Talks***

- Barthelemy, R.** (2022). Queer History in the USA and STEM Education. *University of Helsinki Faculty of Science EDI Day*.
- Barthelemy, R.** (*Moderator*) (2022). Out in Astronomy Panel. AAS and University of Utah.
- Barthelemy, R.S.** (2021). Queering PER: Queer Rights in the US and Physics. *American Physical Society and American Association of Physics Teachers Physics Teachers Conference*. Virtual Plenary.
- Barthelemy, R.S.** (2021). Supporting LGBT+ Students in High School Physics. *American Physical Society and American Association of Physics Teachers Physics Teachers Conference*. Virtual.
- Barthelemy, R.S. & Pearl Sandick** (2020). Graduate Program Reform at the University of Utah: Student Experiences and the process of change. *AAAS Sea Change Symposium Series*. Virtual.
- Barthelemy, R.S.** (2019). Identity Based Harassment: A Workshop on Emerging Research Themes. *AWIS ARC Network Conference*. Cleveland, OH.
- Barthelemy, R.S.** (2019). Measuring Diversity and Inclusion in Large Introductory STEM Classes. *SEISMIC Sloan Conference*. University of Michigan, Ann Arbor, MI.
- Barthelemy, R.S.** (2019). A Closer Look at STEM Equity and Inclusion. *AWIS Innovation Summit*. Washington, DC.
- Barthelemy, R.S.** (2016). Campus Inclusivity in STEM. *University of Cincinnati*. Cincinnati, OH.
- Barthelemy, R.S.** (2016). Diversity and Inclusion Symposium Speaker. *Optical Society of America*. Rochester, NY.
- Barthelemy, R.S.** (2016). LGBT Climate in Physics. *American Association for the Advancement of Science*. Washington, D.C.
- Barthelemy, R.S.** (2016). The Department of Education and Science Education Policy. *American Association of Physics Teachers*. New Orleans, LA.

### ***Invited***

- Barthelemy, R.** (2023). Queering Physics. *Murray State University Seminar Series*. Murray, KY.
- Barthelemy, R.** (2023). Graduate Program Reform: Tragedy, Policy, and Culture. *Tufts University*, Boston.
- Barthelemy, R.** (2022). Queering Physics Education Research. *Ohio University Physics Colloquia*. Virtual.
- Barthelemy, R.** (2022). Queering Physics Education Research. *Army Research Lab Pride Event*. Virtual.
- Barthelemy, R.** (2022). Physics Education Research in the US and Finland. *University of Jyväskylä*, Department of Physics colloquia.
- Barthelemy, R.** (2022). Queer History in the USA and STEM Education. *Association of Advocates for Women in Science and Medicine*.
- Barthelemy, R.** (2022). [Picture a Scientists Panel](#). *APS April Meeting*.
- Barthelemy, R.** (2022). [LGBT+ Roundtable Chair](#). *APS April Meeting*.
- Barthelemy, R.** (2022). Two Years of Physics Education Research at the University of Utah: Rethinking Research on Marginalized groups. *Idaho State University Physics Colloquia*.
- Barthelemy, R.** (2022). Queer History in the USA and STEM Education. University of Utah School of Ed Research Seminar [Internal].
- Barthelemy, R.** (2022). [Graduate Program Reform in One Department of Physics and Astronomy](#). *APS March Meeting Panel on Marginalized Students in Graduate Education*.
- Barthelemy, R.** (2022). Graduate Program Reform in One Department of Physics and Astronomy. *University of Central Florida Physics Colloquia*.
- Barthelemy, R.** (2022). Queering Physics Education Research. *Lewis University Physics and Education Colloquia*. Virtual.
- Barthelemy, R.** (2021). EDI in PER at the U: \$1M in Two Years. *Research Leadership Luncheon at the University of Utah* [Internal talk].
- Barthelemy, R.** (2021). [LGBT+ Faculty and Students in STEM: Policies to Support Success and Inclusion](#). ARC Network Webinar.
- Barthelemy, R.** (2021). Gender Panel. *American Physical Society and Indian Physical Society joint virtual panel*.
- Barthelemy, R.** (2021). Queering Physics Education Research. *Northwestern University Teaching and Learning in Physics Seminar Series*. Virtual.
- Barthelemy, R.** (2021). Two Years of Physics Education Research at the University of Utah: Rethinking Research on Marginalized groups. *University of Edinburgh Lunch Talks, School of Physics and Astronomy*.
- Barthelemy, R.S.** (2021) Queering PER: Queer Rights in the US and Physics. *University of Edinburgh Science and Technology Studies Department*
- Barthelemy, R.** (2021). From Grassroots to National Policy Change: The LGBT+ Physicists. *University of Edinburgh General Seminar Series, School of Physics and Astronomy*.
- Barthelemy, R.** (2021). LGBT Climate in Physics: A Grass Roots Movement to APS Policy Change. *American Association of Physics Teachers*. Virtual.
- Lenz, M. & Barthelemy, R.** (2021). Graduate Program Reform in Physics: Policy, Tragedy, and Culture. *American Association of Physics Teachers*. Virtual.

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- Barthelemy, R.S.** (2021) Queering PER: Queer Rights in the US and Physics. *Rutgers REU Program*. Virtual.
- Barthelemy, R.S.** (2021) LGBT+ in Academia: A Panel Discussion. *IOP*. England, Virtual.
- Barthelemy, R.S.** (2021). LGBT Climate in Physics: A Grass Roots Movement to APS Policy Change. *University of Dayton*. Virtual.
- Barthelemy, R.S.** (2021). LGBT Climate in Physics: A Grass Roots Movement to APS Policy Change. *Weber State University*. Virtual.
- Barthelemy, R.S.** (2020). Professional Skills for Students. *AAPT Virtual Meeting*.
- Barthelemy, R.S.** (2020). LGBT Climate in Physics: A Grass Roots Movement to APS Policy Change. *Florida International University STEM Education Group*. Virtual.
- Barthelemy, R.** (2020). [Physics education research: Who we are and changing the research we do to be more equitable and inclusive](#). *American Chemical Society: DEI Webinar*.
- Barthelemy, R.** (2020). [Physics education research: Who we are and changing the research we do to be more equitable and inclusive](#). *American Physical Society 4CS Conference*. Virtual.
- Barthelemy, R., Mohamed, M., Knaub, A., & Henderson, C.** (2020). Graduate programs in PER: A USA based survey. Presentation for the *Chinese Physical Society*. Virtual (Beijing, China).
- Barthelemy, R.S.** (2020). The APS Forum on Diversity and Inclusion. DOMAP Talk to Gender and Diversity group.
- Barthelemy, R.S.** (2020). From Grass Roots to Policy Change: The LGBT+ Physicist. Colloquia at Oregon State University Department of Physics.
- Barthelemy, R.S.** (2020). Measuring Inclusion in Large Introductory STEM Courses. Colloquia at the University of California Santa Barbra Center for Teaching and Learning.
- Barthelemy, R.S.** (2020) (DECLINED) California Lutheran University
- Barthelemy, R.S.** (2019). Professional Growth Through the AAAS Policy Fellowships. *AAAS*. Washington, DC.
- Barthelemy, R.S.** (2019). Physics Education Research. *ACCESS Students Orientation*. Salt Lake City, UT.
- Barthelemy, R.S.** (2019). Gender Research in PER: A Binary Past and Complex Future. *American Physical Society March Meeting*. Boston, MA.
- Barthelemy, R.S.** (2019). Gender Research in PER: A Binary Past and Complex Future. University of Utah Colloquia. Salt Lake City, UT.
- Barthelemy, R.S.** (2019). Gender Research in PER: A Binary Past and Complex Future. University of Illinois Urbana Champaign. Champaign, IL.
- Barthelemy, R.S.** (2019). Gender Research in PER: A Binary Past and Complex Future. Auburn University Colloquia. Auburn, AL.
- Barthelemy, R.S.** (2016). Diversity Challenges in Physics. *FEMMSS*. South Bend, IN.
- Barthelemy, R.S.** (2016). Physics education a research: A broader look at equity. *American Association of Physics Teachers*. Sacramento, CA.
- Barthelemy, R.S.** (2016). Institutional and social barriers that limit the success of marginalized students. New Orleans, LA.
- Barthelemy, R.S.** (2016). LGBT Climate in Physics. National Science Foundation Advance Workshop. Baltimore, MD.
- Barthelemy, R.S.** (2016). (Panel Member) Sexual harassment and gender bias in physics. *American Physical Society*. Salt Lake City, UT.
- Barthelemy, R.S.** et al. (2016). (Panel Member) LGBT Issues Panel Discussion. *American Physical Society*. Salt Lake City, UT.
- Barthelemy, R.S.** (2016). Institutional and Social Barriers That Limit the Success of Marginalized Students. *American Association of Physics Teachers*. New Orleans, LA.
- McCormick, M., & **Barthelemy, R.** (2015). Women's Persistence in Undergraduate Astronomy: The Roles of Support, Interest, and Capital. *American Association of Physics Teachers Summer Conference*. College Park, MD.
- Blue, J., Traxler, A., Cid, X., & **Barthelemy, R.** (2015). Gender in PER: What's Been Done, How Should We Move Forward? *American Association of Physics Teachers Summer Conference*. College Park, MD.
- Barthelemy, R.** (2015). Gendered Microaggressions in Physics: Creating a Language to Discuss Sexism. *Rochester Institute of Technology, STEM Center*. Rochester, NY.
- Barthelemy, R.** (2014). Teaching About Women in STEM: Understanding Race, Sexuality, and the Many Identities Women Hold. *American Association of Physics Teachers Summer Conference*. Minneapolis, MA.
- Barthelemy, R., & McCormick, M.** (2014). Why Aren't They Here?: The Impacts of Society's and Physics' Cultures on Women's Participation in Physics. *American Association of Physics Teachers Winter Conference*. Orlando, FL.
- Barthelemy, R., Van Dusen, B., & Henderson, C.** (2014). Graduate Students in PER: Demographics, Trajectory, and Climate Experiences. *American Association of Physics Teachers Winter Conference*. Orlando, FL.
- Rankin, S., **Barthelemy, R.,** Patridge, E. (2012). The Experience and Persistence of LGB STEM Faculty. *American Physical Society Conference*. Boston, MA.



### **Contributed**

- Madison Swirtz & Ramón Barthelemy. (2022, July). Queering Methodologies in Physics Education Research [Contributed Talk]. AAPT Summer Meeting 2022, Grand Rapids, Michigan.
- Madison Swirtz & Ramón Barthelemy. (2022, July). Queering Methodologies in Physics Education Research [Poster]. Physics Education Research Conference 2022, Grand Rapids, Michigan.
- Amaral, C; Swirtz, M; Gutzwa, J; Barthelemy, R. (2022, July 10-13). Qualitative Social Network Analysis (SNA) and Applications in Physics Education Research. AAPT Summer Meeting 2022, Grand Rapids, MI, United States.
- Amaral, C; Swirtz, M; Traxler, A; LaForge, E; Gutzwa, J; Henderson, C; Barthelemy, R. (2022, July 10-13). Qualitative Social Network Analysis of Women and LGBTQ+ Professional Physicists AAPT Summer Meeting 2022, Grand Rapids, MI, United States.
- Amaral, C; Swirtz, M; Traxler, A; LaForge, E; Gutzwa, J; Henderson, C; Barthelemy, R. (2022, July 13-14). Qualitative Social Network Analysis of Women and LGBTQ+ Professional Physicists PERC 2022, Grand Rapids, MI, United States.
- Zamarripa Roman, B., Rodriguez, M., Barthelemy, R. S. (2022) A Critical Reframing of STEM Students' Support and Mentorship Channels [Oral presentation] 2022 AAPT Summer Meeting, Grand Rapids, MI
- Zamarripa Roman, B., Rodriguez, M., Barthelemy, R. S. (2022) Nuanced Explorations of Personal Support Networks: A Cross-Case Analysis [Poster presentation] 2022 AAPT Summer Meeting, Grand Rapids, MI.
- Zamarripa Roman, B., Rodriguez, M., Barthelemy, R. S. (2022) Nuanced Explorations of Personal Support Networks: A Cross-Case Analysis [Poster presentation] Physics Education Research Conference 2022, Grand Rapids, MI.
- Rodriguez, M. & Barthelemy R. (2021). Critical Race Theory for Physicists. *American Association of Physics Teachers*. Virtual.
- Mohamed, M., Barthelemy, R., Knaub, A., & Henderson, C. (2020). Graduate programs in PER: A USA based survey. Presentation for *American Association of Physics Teachers*. Virtual.
- Mikota, M. & Barthelemy, R. (2020). Workplace climate for LGBTQ+ Physicists: Predictors of outness. Presentation for *American Association of Physics Teachers*. Virtual.
- Sandick, P., Barthelemy, R., & Gerton, J. (2020). Graduate program reform at the University of Utah. Presentation for *American Association of Physics Teachers*. Virtual.
- Knaub, A. & Barthelemy, R. (2018) Persistence and Career Choices of Finnish University Students. Conference Presentation for *American Association of Physics Teachers*. Washington, D.C.
- Barthelemy, R. (2014). Inequality in America: How Birth Can Determine Path. *Fulbright American Voices Seminar*. Turku, Finland.
- Barthelemy, R. (2014). School Life in America. *Talk to K-12 Students in Seinäjoki, Finland*.
- McCormick, M., & Barthelemy, R. (2014). Women's Persistence in Undergraduate Astronomy: The Roles of Support, Interest, and Capital. *Midwest Sociology Conference*. Omaha, NB.
- Barthelemy, R., McCormick, M., & Henderson, C. (2013). Barriers Beyond Equity: Motherhood in Astronomy. Conference Presentation for *Michigan Space Grant Conference*. Ann Arbor, MI.
- Barthelemy, R., McCormick, M., & Henderson, C. (2013). Barriers Beyond Equity: The Experiences of Women in Astronomy. Conference Presentation for *Association for Graduate Experience and Professoriate*. East Lansing, MI.
- Barthelemy, R., Van Dusen, B., & Henderson, C. (2013). The Demographics of Graduate Students in PER. Conference Presentation for *American Association of Physics Teachers*. Portland, OR.
- Barthelemy, R., Van Dusen, B., & Henderson, C. (2013). The Demographics and Experiences of Graduate Students in PER. Poster Presentation for *Physics Education Research Conference*. Portland, OR.
- Barthelemy, R., McCormick, M., & Henderson, C. (2013). Shooting For the Stars: Lessons From Astronomy. Conference Presentation for *American Philosophical Association Diversity Conference*, Dayton, OH.
- Patridge, E., Barthelemy, R., & Rankin, S. (2013). Factors Impacting the Academic Climate for LGBTQ STEM Faculty. Conference Presentation for *OXIDE's 2013 NDEW Event*. Arlington, VA.
- Taibu, R., Mataka, L., & Barthelemy, R. (2013). Alternative Concepts About Weight and Gravity. Conference Presentation for *National Association of Research in Science Teaching*. San Juan, Puerto Rico.
- McCormick, M., & Barthelemy, R. (2013). Underrepresentation of Women in University Physics. Conference Presentation for *Midwest Sociological Society*. Chicago, IL.
- Barthelemy, R. (2013). Graduate School Preparation and Expectations. *Panel Talk to Sigma Lambda Theta Fraternity*. Kalamazoo, MI.
- Barthelemy, R., Henderson, C., & Grunert, M. (2013). "Pathways not pipeline!" Recruiting Women into Physics. *Conference Presentation for the Nuclear Data and Technology Conference*. New York, NY.
- Barthelemy, R. (2013). The Social Construction of Knowledge. *Conducted workshop for the Department Gender and Women's Studies' instructors on how to interpret, analyze, and include science in their classrooms*. Kalamazoo, MI.
- Barthelemy, R., Henderson, C., & Grunert, M. (2012). Gender Bias in Physics Education. Conference Presentation for *AGEP Michigan Meeting*. East Lansing, MI.
- Barthelemy, R., Henderson, C., & Grunert, M. (2012). The Graduate Research Field Choice of Women in Academic Physics and Astronomy. Conference Presentation for *American Association of Physics Teachers*. Philadelphia, PA.
- Barthelemy, R., Henderson, C., & Grunert, M. (2012). Subjective Task Value and The Choices of Women in Physics: Poster Presentation for *Physics Education Research Conference*. Philadelphia, PA.
- Ramón S. Barthelemy, Ph.D.**

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- Barthelemy, R. (2012). Gender and Sexual Diversity Issues in Undergraduate STEM Degrees: *Presentation to Student Group at Johns Hopkins University*. Baltimore, MD.
- Barthelemy, R. & Henderson, C. (2011). Diversity in Physics Education. Conference Presentation for *AGEP Michigan Meeting*. East Lansing, MI.
- Barthelemy, R., & Henderson, C. (2011). Physics Faculty Hiring. Conference Presentation for *American Association of Physics Teachers*. Omaha, NE.
- Barthelemy, R., Henderson, C., Mestre J., & Finkelstein N. (2011). Physics Education Research Funding Census. Poster Presentation for *Physics Education Research Conference*. Omaha, NE.
- Barthelemy, R. (2010-2013). Gender Bias in Academia. *Guest Lecturer, Introduction to Sociology*. Kalamazoo, MI.
- Barthelemy, R. (2010). Detection of Brightest Cluster Galaxies. *Professional Talk to MSU Astronomy Department*. East Lansing, MI.
- Barthelemy, R. (2008-2009). History and Philosophy of Science Introductory Course. *Guest Lecturer on Technology in Ancient Korea*. East Lansing, MI.

## Previous Fellowships

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AAAS Science Policy Fellowship	2015-2016	Stipend to work in Federal Department of Education
Fulbright	2014-15	Travel and stipend to conduct research in Jyväskylä Finland
National Science Foundation AGEP	2011-14	Tuition and stipend for completion of PhD
Michigan Space Grant	2012-13	Research and conference travel funding
NSF S-STEM Improve	2011-13	Summer tuition and stipend for completion of PhD
Lawrence W. Hantel Endowed	2009-10	Undergraduate research funding

## Previous Awards

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Recipient	2018	EAB	Team Award for Exemplary Service and Research
Recipient	2014	University of Michigan	<a href="#">NCID Exemplary Diversity Scholar Award</a>
Recipient	2014	Western Michigan University	Institute for Science Education Doctoral Research Award
Recipient	2013	Western Michigan University	Gender and Women's Studies Gwen Raaberg Teaching Award
Recipient	2012	oSTEM Incorporated	Exemplary LGBTQA+ Advocacy in STEM Fields
Recognition	2012	American Physical Society	American Physical Society Physicists Profile Article
Recognition	2013	Western Michigan University	Quarterly News Article on Research and Teaching
Recipient	2006	Michigan State University	Multicultural Acknowledgement of Academic Achievement

## Research

### *University of Utah, Salt Lake City*

Mapping the Professional Networks of Women and LGBT+ Physicists (*NSF Funded*): *Current*  
*Principal Investigator*

BCSER Ten Years Later: women in Physics and Astronomy and Students of Color in STEM (*NSF Funded*): *Current*  
*Principal Investigator*

Policies and Practices in Graduate Physics and Astronomy (*NSF Funded*): 2019-2022  
*Principal Investigator*

Diversity and Inclusion in STEM Introductory Courses: 2019-2021  
*Principal Investigator*

Designing quantitative study to assess the impact of student perceptions of D&I on their final course grades and learning outcomes

Physics Education Research Graduate Programs: 2019-2020  
*Principal Investigator*

Survey to assess graduate PER programs nationwide for structure and student preparation.

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### ***EAB, Washington DC***

Faculty Research Development: *Fall 2017-Winter 2018*

*Principal Investigator*

Designed qualitative research protocol to investigate best practices for communicating academic research to the general public.

Research Communications in Academic Science: *Spring 2017*

*Principal Investigator*

Designed qualitative research protocol to investigate best practices for communicating academic research to the general public.

### ***University of Jyväskylä, Finland***

Physics in Finland: An Assessment of Motivation, Climate, and Gendered Experiences: *Fall 2014-Winter 2015*

*Principal Investigator*

Designed survey instrument to assess student motivations to pursue physics, career goals, climate experiences and persistence

### ***University of Michigan***

The Classroom Climate of Students in Introductory Biology: *2014*

*Co-Principal Investigator, Collaborators: Tim McKay (UM), REBUILD Research Group*

Designed survey sent out to students in introductory biology to assess their comfort, interactions with faculty and students, and more. Analyzed data using SPSS and wrote up publication

### ***Western Michigan University***

Women's Educational Experiences in Academic Physics and Astronomy: *2011-2014*

*Principal Investigator, Collaborators: C. Henderson (WMU), M. McCormick (WMU)*

Used in-depth in person interviews to collect data on the graduate experiences of women in physics and astronomy. I designed the project, conducted all the data collection, and co-analyzed data with Ms. McCormick. I also supervised undergraduate students in transcription of the audio-recorded interviews. Co-presented an invited talk on the project.

The Bullying Experiences of LGBT Youth: *2014*

*Collaborator, Principal Investigators: Angie Moe (WMU), Melinda McCormick (WMU)*

Discussed project design with PI Ms.

The Experiences of Graduate Students in Physics Education Research: *2012-'14*

*Principal Investigator, Collaborators: B. Van Dusen (CUB), C. Henderson (WMU)*

Conducted in person interviews with graduate students in PER and analyzed all data to understand their graduate experiences. Co-created survey instrument with Dr. Van Dussen and launched online survey to assess experiences of all graduate students in PER. Co-presented an invited talk on the project.

The Impact of Climate Factors on the Persistence of LGBTQ STEM Faculty: *2011-'13*

*Co-Principal Investigator, Collaborators: S. Ranking (Pennsylvania State), E. Patridge (Yale)*

Analyzed survey data on the experiences of LGBQ STEM faculty to understand their climate perceptions and the impact it had on persistence. Co-presented an invited talk on the project.

Physics Education Research Funding Census: *2011*

*Research Assistant, Collaborators: C. Henderson (WMU), N. Finkelstein (CUB), J. Mestre (UIUC)*

Used grant databases to collect all PER grants within last decade at time of project.

TOF Nuclear Measurements: *2010*

*Research Assistant, Experimental Nuclear Physics Group at Western Michigan University*

Riken Rare Ionizing Beam Factory: *Wako, Japan 2010*

*Experiment Aide*

Worked shifts in Wakoishi, Japan taking online data for mass measurement experiment.

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### ***Michigan State University***

Brightest Cluster Galaxies Instrument Analysis: 2010

*Collaborative and Independent research project*

Analyzed data taken from space based telescopes and developed models for light detection in telescopes and various thresholds for detection.

PhD Thesis Experiment Assistant at Michigan State University: 2009

Researched, calculated, and implemented radiation shielding for detector array. Analyzed data to understand effects of magnetic field intensities and calibrated detectors for data acquisition and analysis.

Gamma Ray Spectroscopy: 2007- '09

*Data Analyst and Lab Aide*

Prepared high-end nuclear physics detectors for efficiency and accuracy. Analyzed data obtained from experiments done with Cyclotron Beam Line and adhered to and enforced radiation safety and protocol.

## **Teaching**

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### *University of Utah*

Calculus Based Introductory Physics

*Instructor, Fall 2019 (in person), Fall 2020 (online)*

Physics Education Research

*Instructor, Spring 2020 (in person/online), Spring 2022 (online)*

Queer Theory in Science Education

*Spring 2022 (in person)*

*University of Jyväskylä, Finland*

Race and Gender in Science

*Instructor, Summer 2015 in Humanities Summer School*

Taught intensive week-long graduate seminar on issues of race and gender in science. Explored the history of how race and gender have been understood in science, and used to perpetuate social conditions and hierarchies. Also deconstructed notions of what is science and the current make up of scientists.

International and Intercultural Education

*Instructor, Winter 2015*

Taught masters course on topics of race, gender, class, and culture in the classroom. Emphasis was placed on the primary school classroom in how we teach and interact with a diverse set of students.

### *Western Michigan University*

Teaching and Learning of Physics: *Western Michigan University*

*Instructor, Fall 2013*

Co-taught upper-division course on curriculum design, pedagogy, and teaching methods in high school physics. Supervised undergraduate students in construction of lessons and development as critical teachers.

Race, Gender and Science: *Western Michigan University*

*Instructor, Spring 2012, Fall 2012, Fall 2013*

Designed and taught upper-division course on historical, philosophical, and sociological aspects of race and gender in science. Course was taken by juniors and seniors and had a parallel focus on student writing, presentation skills, and analytical thinking. Course has since been institutionalized in the department and is now a general education course.

Introduction to Sociology: *Western Michigan University*

*Guest Lecturer, 2010-13*

Presented one lecture a semester on gender issues in the sciences to facilitate candid discussions and thoughts on gender in the modern world.

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Mechanics and EM for Scientists and Engineers: *Western Michigan University*

*Substitute Lecturer, 2010-11*

Designed and implemented lessons on various physics topics as substitute instructor for the course.

Electricity and Magnetism for Scientists and Engineers: *Western Michigan University*

*Teaching Assistant, 2010*

Graded class assignments, led review sessions for exams, and held office hours to help students.

*Michigan State University*

Integrated Studies in the Physical Sciences: *Michigan State University*

*Teaching Assistant, 2009*

Developed grading rubric and applied it to student assignments. Met with students in office hours to discuss physics material and course concepts.

## Service

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1	UK-US Bilateral Data Meeting, Winston Park	Participant	2023
2	Rutgers REU Program Evaluator	Consultant	2021-2023
3	Spencer Foundation Grant Reviewer	Reviewer	2022
4	Consulted on APS Career pathways webpage for students, co-created online list of PER programs	Consultant	2022
5	EDI Consultant University of Helsinki Faculty of Science	Consultant	2022
6	EDI Consultant to Utah Department of Civil and Environmental Engineering	Consultant	2022
7	Mellon Foundation Sounding Board Member	Consultant	2022-2023
8	UK Science Innovation Network	Roundtable Discussant	2022
9	National Science Foundation Grant Reviewer	National Science Foundation	2019-Present
10	Physical Review PER Reviewer	American Physical Society	2011-Present
11	Journal of Research in STEM Education	Reviewer	2022
12	Physics Education Research Conference Organizing Consultant	PERC	2022
13	Physical Review Guest Editor: Special Collection on Qualitative Research Methodology in PER	American Physical Society	2021-22
14	APS EP3 Physics Education Guide Reviewer	American Physical Society	2021
15	Committee on Diversity in Physics	American Association of Physics Teachers	2021-24
16	Supported Astro and CME Faculty Searches	University of Utah	2021
17	College of Science Committee	University of Utah	2020-21
18	General Education Brain Trust	University of Utah	2020-21
19	Forum on Diversity and Inclusion Member at Large	American Physical Society	2020-21
20	SEISMIC Grant Advisory Board Member	University of Michigan	2020-23
21	Safety in Sciences Conference Organizer and Moderator	University of California	2020-21
22	P&A Committee: Undergraduate Curriculum Reform	University of Utah	2020
23	P&A Committee: Undergraduate Research Committee	University of Utah	2019-20
24	P&A Committee: Diversity and Inclusion	University of Utah	2019-20
25	Conference Organizer	Association for Women in Science	2019
26	Media Interviews (Science Magazine, The Scientist, APS, Physics World, Sci Guys Podcast)		2019-22

Physics Education Research Conference Organizer

Ramón S. Barthelemy, Ph.D.



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### *Volunteer*

Organized 2020 summer PERC panel discussion titles “The Past, Present, and Future of PER”

### American Association of Physics Teachers

#### *Organizer*

DEI Resource Room LGBT+ Discussion, 2020

Meet up- LGBT+ Physicists, 2020

Meet up- LGBT+ Physicists, 2021

LGBT+ Physicists: Research and Perspectives, Conference Session, 2021

### *Committee on Women Member*

*Volunteer member for the committee on women in physics, 2014-2017*

Organized Sessions for annual conferences: *Decreasing Stereotype Threat in Discourse and Assessment (San Diego 2014)*,

*Gender and Sexual Diversity Issues in Physics (Portland, 2013)*, *The Interaction of Gender and STEM (College Park, 2015)*

### American Physical Society Ad Hoc Committee on LGBT Issues in Physics

#### *Committee Member 2014-2015*

Design and Implement world-wide research to assess the climate and persistence of LGBT+ Physicists

### LGBT+ Physicists

*Volunteer as part of the LGBT+ Physicists National Working Group, 2012-Present*

Co-wrote best practices guide for including LGBT+ persons in department of physics, which was distributed to department chairs across the nation through a national conference. Successfully proposed to the American Physical Society to include sexual orientation on their surveys. Organized Gender and Sexuality Session at AAPT 2013 meeting and networking meeting for LGBT+ Physicists

Reviewer for American Journal of Physics, Physical Review Special Topics- Physics Education Research, Physics Education Research Conference, National Association for Research in Science Teaching Conference, Journal of Geosciences Education, and Journal of Women and Minorities in Science and Engineering

*Reviewed journal articles, conference papers, and conference proposals, 2011-2020*

### World Wide Educational Group Treasurer: WMU Chapter

*Organized guest scholar speaker series including applying for and receiving internal funding, 2012*

Physics Education Research (PER) Graduate Student National Board

*Co-Organized graduate student initiative to have national representation in PER community, 2012*

### oSTEM Chapter at Western Michigan University Founder

*Founded chapter of a professional organization for LGBT STEM students at WMU. Facilitated weekly meetings and created self-sustaining organization that was passed down to students, 2011-12*

Science Advocacy: Lobbying Capitol Hill, Washington DC

*Volunteer for Facility for Rare Isotope Beams at Michigan State University, 2012*

### Way To Go Science Camp, Kalamazoo, MI

*Volunteer, 2011*

### Michigan State University Residence Life, East Lansing, MI

*Resident Advisor (RA), 2008-10*

### YMCA Camp Pendalouan, Montague, MI

*Summer Camp Counselor, 2006*

## **Languages**

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English	C2: Native writing, reading, and spoken
Spanish	B1: Intermediate writing, reading, and spoken

## Memberships

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American Physical Society	Member	2011-Current	(Lifetime Member)
Society for Social Studies of Science	Member	2021-Present	
American Association of Physics Teachers	Member	2011-Current	
ASHE (higher Education society)	Member	2020	

## Previous

NORDP	Member	2018	
National Association of Research in Science Teaching	Member	2013	
Society for the Psychology of Women	Member	2013	
European Science Education Research Association	Member	2012	
oSTEM Chapter at Western Michigan University	Founder	2011-2012	
National Society of Hispanic Physicists	Member	2010	
American Astronomical Society	Member	2009	
National Society of Physics Students	Member	2008 -10	
American Association of Physicists in Medicine	Member	2008	
Michigan State Society of Physics Students	Member	2006 -10	

## Skills and Professional Development

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- SPSS: Statistical software package and Hyper Research
- Supervised undergraduate students in nuclear physics lab and physics education group.
- Project management of national level surveys, including the supervision of employees.

Graduate Science Education Course Work: *Cognition and Teaching, Qualitative and Quantitative Research Methods, Grant Writing, History & Philosophy of Science, Teaching and Learning of Science, Curriculum Development, and Research Traditions in DBER*  
Graduate Physics Course Work: *Mathematical Methods, Classical Mechanics, Quantum Mechanics, Nuclear Physics Research, Research Seminar, and Electricity and Magnetism.*

Graduate Gender Studies Courses: Independent studies in *Feminist Research Methodologies and Feminist Literature in DBER Education.*

Workshops attended: *Gender Bias in Academic Physics (AAPT 2011), The Gender Gap in Physics Classrooms (AAPT 2012), Transnational Feminist Issues (Gender and Women's Studies Program 2012), Masculinity Studies (GWS 2012), Transgender Issues (GWS 2012).*

Workshops Conducted: *How science can help the gender and women's studies classroom (Department of Gender and Women's Studies Western Michigan University, 2012) and Preparing for a career in Physics Education Research: Planning your education and applying to jobs (American Association of Physics Teachers Conference, 2014).*