

Smitha Pillai, Ph.D.
Arizona State University
School of Molecular Sciences (SMS)
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EDUCATION

- 2006-2011 **Ph.D., Chemistry**, Arizona State University
Dissertation title: Design and Synthesis of Artificial Photosynthetic Molecules to Mimic Aspects of natural Photosynthetic Mechanism.
Advisor: Dr. Ana. Moore
- 2000-2002 **M.Sc., Organic Chemistry**, Pune University, India
- 1998-2000 **B.Sc., Chemistry**, Pune University, India

EMPLOYMENT

- 2022-present **Teaching Associate Professor**, Arizona State University
- 2019-2022 **Senior Lecturer**, Arizona State University
- 2013-2019 **Lecturer**, Arizona State University
- 2012-2013 **Faculty Associate**, Arizona State University
- 2012-2013 **Postdoctoral Fellow**, Arizona State University
- 2011-2012 **Visiting Assistant Professor**, Whitman College, Washington.
- 2003-2005 **Lecturer**, Fergusson College, India

RESEARCH EXPERIENCE

- 2018-present Chemical Education Research.
- 2012-2013 **Postdoctoral Fellow**, Arizona State University.
Advisors: Dr. Devens Gust and Dr. Ana Moore
Synthesis of deuterated carotenoid-porphyrin-fullerene triad, which would be further used in the study of quantum effects of magnetoreception.
- 2006-2011 **Graduate Student Researcher**, Arizona State University.
Advisor: Dr. Ana Moore
- Design and synthesis of artificial light harvesting molecules such as carotenoid pigments covalently attached to tetrapyrrole chromophores and their role in non-photochemical quenching.
 - Developing high oxidation potential porphyrin dyes for water oxidation as a part of Centre for Bioenergy and photosynthesis at Arizona State University.
 - Design, development and verification of a remotely powered and controlled artificial electrocyte (electric-organ cell) able to perform high precision neuro-stimulation.

Technical Skills:

Instrumentation: 500 MHz Varian (Standard ^1H , ^{13}C Organic Compound Characterization 2D NMR Spectroscopy - COSY, HSQC, HMBC), 400 MHz Varian NMR, Beckman HPLC system, MALDI-TOF mass spectrometry, Shimadzu UV-visible

spectrometer, Gas-Chromatography. Microsoft Office (including PowerPoint), and Origin Lab for Data analysis.

AWARDS/ACHIEVEMENTS

2023	Distinction of Merit and Scholastic Occupation (DMSO) teaching award, on behalf of The Students Affiliates of American chemical Society (SAACS) Arizona State University.
2023	College of Liberal Arts and Sciences (CLAS) Outstanding Instructor/Lecturer Award Nominee.
2023	Professor of Impact Award
2022	College of Liberal Arts and Sciences (CLAS) Outstanding Instructor/Lecturer Award Nominee.
2021	College of Liberal Arts and Sciences (CLAS) Outstanding Instructor/Lecturer Award Nominee.
2018	College of Liberal Arts and Sciences (CLAS) Outstanding Instructor/Lecturer Award Nominee.
2016	College of Liberal Arts and Sciences (CLAS) Outstanding Instructor/Lecturer Award Nominee.
2015	College of Liberal Arts and Sciences (CLAS) Outstanding Instructor/Lecturer Award Nominee.
2010	Certificate in recognition for excellences as a Reserach assistant
2008	Certificate in recognition for excellences as a Teaching assistant
2003	Cleared University Grant Commission (UGC) Maharashtra State Eligibility Test (SET) examination and qualified for Lectureship.

PROFESSIONAL DEVELOPMENT

2023	ACS Essentials of lab safety for Organic Chemistry.
2022	ASU Recruitment Certification Training.
2022	Developing Culturally Responsive Teaching Webinar.
2022	CSW leadership series "Imposter Syndrome".
2020	ASU CSW/SC Professional Development Conference 2020
2019-2020	Certificate in Effective Instruction Association of College and University Educators. (This certificate signifies my completion of a 25-module course in effective teaching practices requiring the implementation of evidence-based instructional approaches. The credential is co-issued by the American Council on Education and distinguishes faculty for their commitment to educational excellence and student success).
2019	Master-Class for Teaching Online.
2015	Bootcamp for teaching online.

PROFESSIONAL SERVICE

2023	Committee Chair on Organic Chemistry teaching Professor position at SMS, ASU.
2023	Served as a faculty judge for poster presentation at the SOLS 30 th Annual Research Poster Symposium, ASU.
2022	Served as a committee member for Honors Thesis for undergraduate students, ASU
2022	Served for NSF REU panel, ASU.

2022	Western Alliance to Expand Student Opportunities (WAESO) Served as a faculty judge for poster presentation at the 2022 Sixteenth annual WAESO student research conference.
2022	Served as an organizing member for Inclusive Future Faculty Symposium (IFFS) at SMS, ASU.
2022-present	Representing Lecturers at Academic Operation Team at SMS, ASU.
2022	Committee member on General Chemistry Instructor position at SMS, ASU.
2022	Committee member on Organic Chemistry Lab manager position at SMS, ASU.
2022	Committee member on Undergraduate Research Thesis defense at SMS, ASU.
2021	Committee member on Organic Chemistry Lecturer position at SMS, ASU.
2014-present	Committee member on Instructors and Teaching Assistants at SMS, ASU

INVITED REVIEWER

2022	Chapter Review, Organic Chemistry: A learner centered approach by Rick Mullins.
2022	Reviewed ALEKS for Organic Chemistry. McGraw Hill.
2021	Reviewed New Online Course, Achieve for Organic Chemistry. Macmillan Learning.
2019	Sapling Organic Chemistry Homework Review. Chapter 5 and 7.
2019	Reviewed Organic Chemistry by Benjamin Burlingham. Chapters 6-13. Oxford University Press –Higher Education.
2018	Reviewed Organic Chemistry MindTap prototype Cengage Learning.
2017	Organic Chemistry by L.G. Wade 9 th edition. Reviewed 9 th edition and suggested improvements for 10 th edition.
2017	Organic Chemistry: Principles and Mechanism by Joel Karty 2 nd edition. Reviewed two chapters and one Interchapter.
2017	Pearson Interactive Organic Chemistry text. Reviewed one chapter.
2017	Reviewed Organic Chemistry by David Klein 3 rd edition.
2016	Organic chemistry: Principles and Mechanism by Joel Karty second edition. Reviewed three revised chapters and two Interchapters.

PUBLICATIONS

1. Ravensbergen Janneke, Pillai Smitha, Mendez-Hernandez Dalvin, Frese Raoul N, van Grondelle Rienk, Gust Devens, Moore Thomas A, Moore Ana L, Kennis John T. M. Dual Singlet Excited-state Quenching Mechanisms in an Artificial Carotenoid-phthalocyanine Light harvesting Antenna. **ACS Phys. Chem Au**, 2022, 2, 59-67.
2. Austin, A. C.; Gould, D. L.; Pillai, S.; Zhu, M.; Gould, I. R. "Student Outcomes in an Concentrated Chemistry Laboratory Course for Online Students", **NARST** 2020.
3. Christain Kerpel, Sabine Richert, Jonathan G. Storey, Smitha Pillai, Paul A. Liddell, Devens Gust, Stuart R. Mackenzie, P. J. Hore & Christiane R. Timmel. Chemical compass behaviour at microtesla magnetic fields strengthens the radical pair hypothesis of avian magnetoreception. **Nature Communications**. 2019, 10(1), 1-7.
4. Junming Ho, Elizabeth Kish, Dalvin D Méndez-Hernández, Katherine WongCarter, **Smitha Pillai**, Gerdenis Kodis, Jens Niklas, Oleg G Poluektov, Devens Gust, Thomas A Moore, Ana L Moore, Victor S. Batista, Bruno Robert. Triplet-Triplet Energy Transfer in Artificial and Natural Photosynthetic Antennas. **From Proceedings of the National Academy of Sciences of the United States of America**. 2017, 114(28), E5513-E5521.
5. **Smitha Pillai**, Janneke Ravensbergen, Antaeres Antoniuk-Pablant, Benjamin D. Sherman, Rienk van Grondelle, Raul N. Frese, Thomas A. Moore, Devens Gust, Ana L. Moore, John T.M. Kennis. Carotenoids as electron or excited-state energy donors in artificial photosynthesis: an

- ultrafast investigation of a carotenoporphyrin and a carotenofullerene dyad. *Phys. Chem. Chem. Phys.* **2013**, 15(13), 4775-4784.
6. Miroslav Klok, **Smitha Pillai**, Gerdenis Kodis, Devens Gust, Thomas A. Moore, Ana L. Moore, Rienk van Grondelle, John T.M. Kennis. New light-harvesting roles of hot and forbidden carotenoid states in artificial photosynthetic constructs. *Chemical Science* **2012**, 3(6), 2052-2061.
 7. Liao, P.N., **Smitha Pillai**, Klok, M., Gust, D., Moore, A. L., Moore, T. A., Kennis, J. T. M., van Grondelle, R., Walla, P. J. (2011) On the role of excitonic interactions in carotenoid–phthalocyanine dyads and implications for photosynthetic regulation. *Photosynthesis Research* **2012**, 111(1-2), 237-243.
 8. Pen-Nan Liao, **Smitha Pillai**, Devens Gust, Thomas A. Moore, Ana L. Moore, and Peter J. Walla. Two-Photon study on the electronic interactions between the first excited singlet states in carotenoid-tetrapyrrole dyads. *J. Phys. Chem. A* **2011**, 115(16), 4082-4091.
 9. Miroslav Klok, **Smitha Pillai**, Gerdenis Kodis, Devens Gust, Thomas A. Moore, Ana L. Moore, Rienk van Grondelle, John T.M. Kennis. Carotenoid photoprotection in artificial photosynthetic antennas. *J. Am. Chem. Soc* **2011**, 133(18), 7007-7015.
 10. Benjamin D. Sherman, **Smitha Pillai**, Gerdenis Kodis, Jesse Bergkamp, Thomas E. Mallouk, Devens Gust, Thomas A. Moore, and Ana L. Moore. A Porphyrin Stabilized Iridium Oxide Water Oxidation Catalyst. *Canadian Journal of Chemistry* **2011**, 89(2), 152-157.
 11. Rudi Berera, Ivo H. M. van Stokkum, Gerdenis Kodis, Amy E. Keirstead, **Smitha Pillai**, Christian Herrero, Rodrigo E. Palacios, Mikas Vengris, Rienk van Grondelle, Devens Gust, Thomas A. Moore, Ana L. Moore, and John T. M. Kennis. Energy transfer, excited-state deactivation, and exciplex formation in artificial carotenoid-phthalocyanine light-harvesting antennas. *J. Phys. Chem. B* **2007**, 111(24), 6868-6877.

BOOK (CHAPTERS/GAP NOTES)

1. General Organic Chemistry 1, 233 Gapped Lecture Notes, Ara Austin, Ian Gould, **Smitha Pillai**, David Spurgeon, Pichaya Trakanrungraj.
2. General Organic Chemistry 2, 234 Gapped Lecture Notes, Ara Austin, Ian Gould, **Smitha Pillai**, David Spurgeon, Pichaya Trakanrungraj.
3. I.H.M. van Stokkum, J. Ravensbergen, J.J. Snellenburg, R. van Grondelle, **Smitha. Pillai**, T.A. Moore, D. Gust, A.L. Moore, J.T.M. Kennis. Chapter Six- Resolving Energy and Electron Transfer Processes in Dyads With the Help of Global and Target Analysis, *Artificial Photosynthesis*, 179 (169–192).

PRESENTATIONS

1. **Smitha Pillai**, Ara Austin, Mary Zhu, Ian Gould. The Fully Online BS and BA Degrees in Chemistry and Biochemistry at Arizona State University. Duke University, March 28, **2023**.
2. **Smitha Pillai**, Ara Austin, Mary Zhu, Ian Gould. The Fully Online BS and BA Degrees in Chemistry and Biochemistry at Arizona State University. 27th Biennial Conference on Chemical Education, July 31-August 4, **2022**.
3. **Smitha Pillai**, Ara Austin, Mary Zhu, Ian Gould. A Highly Compressed Organic Chemistry Laboratory Course for Online Degree Students. 27th Biennial Conference on Chemical Education, July 31-August 4, **2022**.
4. **Smitha Pillai**, Ara Austin, Mary Zhu, Ian Gould. Highly compressed organic chemistry laboratory course for online degree students. 26th Biennial Conference on Chemical Education, July 18-July 23, **2020** (Conference Cancelled due to pandemic).
5. **Smitha Pillai**, Ara Austin, Mary Zhu, Ian Gould. Fully online BS Degree in biochemistry at Arizona State University. 26th Biennial Conference on Chemical Education, July 18-July 23, **2020** (Conference Cancelled due to pandemic).

6. **Smitha Pillai**, Ara Austin, Marely Tejeda, Pichaya Trakanrungsri, Ian R. Gould. Two Semesters of Organic Chemistry labs in One Week. 25th Biennial Conference on Chemical Education, July 29-August 2, **2018**.
7. **Smitha Pillai**, Ara Austin, Ian R. Gould. Podia as a Social Media Tool for Collaboration and Communication in General Organic Chemistry Classes. 25th Biennial Conference on Chemical Education, July 29-August 2, **2018**.
8. **Smitha Pillai**, Rudi Berera, Mirek Klotz, John T. M. Kennis, Rienk van Grondelle, Moore, T.A, Gust, D and Ana Moore. Synthesis of Simple Artificial Light-Harvesting Molecules. Abstracts of Papers, 238th ACS National Meeting, Washington, DC, United States, August 16-20, **2009**.

PRESENTATIONS With My Contributions

1. Carotenoid Triplet Formation in Artificial Photosynthetic Antenna, Denise Galzerano, **Smitha Pillai**, Katie Wong-Carter, Thomas Moore, Ana Moore, Devens Gust and Bruno Robert, Gordon Research Conference on Carotenoids, Ventura, CA. (Poster presented by Denise Galzerano), 2013.
2. Ultrafast Energy Transfer in an Artificial Photosynthetic Antenna, M. Maiuri, J. J. 70 Snellenburg, I. H. M. van Stokkum, **Smitha Pillai**, D. Gust, T. A. Moore, A. L. Moore, R. van Grondelle, G. Cerullo, D. Polli, Ultrafast Phenomena, Lausanne, Switzerland. (Presented by M. Maiuri), 2012.
3. Electron Transfer Beats Energy Transfer, Janneke Ravensbergen, **Smitha Pillai**, Antaeres Antoniuk-Pablant, Raoul Frese, Devens Gust, Tom Moore, Ana Moore and John Kennis, Gordon Research Seminar on Renewable Energy: Solar Fuels, Barga, Lucca. (Poster presented by Janneke Ravensbergen), 2012.
4. Electron Transfer Beats Energy Transfer, Janneke Ravensbergen, **Smitha Pillai**, Antaeres Antoniuk-Pablant, Raoul Frese, Devens Gust, Tom Moore, Ana Moore and John Kennis, International Conference on Nanostructured Systems for Solar Fuel Production (NanoGe Conference), Mallorca, Spain. (Poster presented by Janneke Ravensbergen), 2012.
5. Balancing Spectroscopic and Redox Properties in a Dye-Sensitized Tandem Junction Cell for the Photolysis of Water, Benjamin D. Sherman, Jesse J. Bergkamp, **Smitha Pillai**, Yixin Zhao, Gerdenis Kodis, Jackson Megiatto, Dalvin Mendez, Thomas E. Mallouk, Devens Gust, Ana L. Moore and Thomas A. Moore, Gordon Research Conference on Photosynthesis, Biofuels, and Artificial Photosynthesis, Davidson College, Davidson, NC. (Poster presented by B. Sherman), 2012.
6. Dye-Iridium Oxide Constructs for Light Driven Water Oxidation, Benjamin D. Sherman, Jesse J. Bergkamp, **Smitha Pillai**, Jackson D. Megiatto Jr., Gerdenis Kodis, Dalvin Mendez, Antaeres Antoniuk-Pablant, Yixin Zhao, Thomas E. Mallouk, Devens Gust, Ana L. Moore and Thomas A. Moore, ASU-UA Student Conference on Renewable Energy Science, ASU, Tempe, AZ. (Poster presented by B. Sherman), 2012.
7. Dye-Iridium Oxide Constructs for Light Driven Water Oxidation, Benjamin D. Sherman, Jesse J. Bergkamp, **Smitha Pillai**, Jackson D. Megiatto Jr., Gerdenis Kodis, Yixin Zhao, Thomas E. Mallouk, Devens Gust, Ana L. Moore, and Thomas A. Moore, 21st Western Photosynthesis Conference, Asilomar Conference Grounds, Pacific Grove, CA., (Poster presented by B. Sherman), 2012.
8. Synthesis of Porphyrin and Phthalocyanine Dyes for Photoelectrochemical Water Splitting, Jesse J. Bergkamp, Benjamin D. Sherman, Matthieu Koepf, **Smitha Pillai**, Gerdenis Kodis, Chelsea L. Brown, Thomas A. Moore, Devens Gust, and Ana L. Moore, ASU-U of A Student 69, 2012.
9. Synthesis and Application of Porphyrin and Phthalocyanine Chromophores for Photoelectrochemical Water Splitting, Jesse J. Bergkamp, Benjamin D. Sherman, Matthieu Koepf, Chelsea L. Brown, **Smitha Pillai**, Edgar Reyes, Manuel José Llansola Portolés, Thomas

- A. Moore, Devens Gust and Ana L. Moore, Gordon Research Seminar/Conference, Photosynthesis. Davidson, NC. (Poster presented by J. Bergkamp), 2012.
10. Synthesis of Porphyrin and Phthalocyanine Dyes for Photoelectrochemical Water Splitting, Jesse J. Bergkamp, Benjamin D. Sherman, Matthieu Koepf, **Smitha Pillai**, Gerdenis Kodis, Chelsea L. Brown, Thomas A. Moore, Devens Gust, and Ana L. Moore, ASU-U of A Student 69 Conference on Renewable Energy Science, Arizona State University, Tempe, AZ. (Poster presented by J. Bergkamp), 2012.
 11. Balancing Spectroscopic and Redox Properties in a Dye-Sensitized Tandem Junction Cell for the Photolysis of Water, Benjamin D. Sherman, Jesse J. Bergkamp, **Smitha Pillai**, Yixin Zhao, Gerdenis Kodis, Jackson Megiatto, Dalvin Mendez, Thomas E. Mallouk, Devens Gust, Ana L. Moore and Thomas A. Moore. Gordon Research Seminar on Photosynthesis, Biofuels, and Artificial Photosynthesis, Davidson College, Davidson, NC. (Presented by B. Sherman), 2012.
 12. Organic-Dye Based Approach to Photoelectrochemical Water Splitting, Benjamin D. Sherman, Jesse J. Bergkamp, **Smitha Pillai**, Gerdenis Kodis, Dalvin Mendez, Devens Gust, Ana L. Moore and Thomas A. Moore, 21st Western Photosynthesis Conference, Asilomar Conference Grounds, Pacific Grove, CA. (Presented by B. Sherman), 2012.
 13. Design of Photoelectrochemical Cells for the Splitting of Water and Production of Fuel, A. L. Moore, J. D. Meggiato, J. Bergkamp, B. D. Sherman, **Smitha Pillai**, D. Mendez, T. A. Moore and D. Gust, 242nd ACS National Meeting and Exposition, Denver CO. (Presented by A. Moore), 2011.
 14. Bidirectional Energy Transfer and Excitonic Coupling in Carotenoid Tetrapyrrole Dyads, **Smitha Pillai**, M. K. Klotz, G. Kodis, J. T. M. Kennis, R. van Grondelle, P. J. Walla, P.-N. Liao, D. Gust, T. A. Moore and A. L. Moore, DOE Solar Photochemistry Research Meeting, Wintergreen, VA. 2011.
 15. A Two-Junction Artificial Leaf: Optimizing Artificial Antennas and Reaction Centers for Solar-Driven Water to Hydrogen Redox Processes, A. L. Moore, T. A. Moore, D. Gust, A. Antoniuk-Pablant, J. Bergkamp, G. Kodis, M. Koepf, J. Megiatto, D. Méndez, **Smitha Pillai**, B. Sherman, Y. Terazono, DOE EFRC Summit, Washington. (Presented by T. Moore and A. Moore), 2011.
 16. Design of Photoelectrochemical Cells for Water Splitting and Fuel Production, G. F. Moore, M. Hambourger, B. Sherman, **Smitha Pillai**, J. Bergkamp, E. Mariño-Ochoa, M. Videa, D. Gust, T. A. Moore and A. L. Moore, X ELAFOT, La Serena, Chile. (Presented by A. Moore), 2010.
 17. Artificial Photosynthetic Antennas: Light Absorption and Control Mechanisms, **Smitha Pillai**, M. K. Klotz, Y. Terazono, G. Kodis, J. T. M. Kennis, R. van Grondelle, G. R. Fleming, D. Gust, T. A. Moore and A. L. Moore, 15th International Congress of Photosynthesis (PS2010), Photosynthetic light-harvesting Satellite Workshop, Nankai University, Tianjing, China. (Presented by A. Moore), 2010.
 18. Design of Photoelectrochemical Cells for Water Splitting and Fuel Production, G. F. Moore, M. Hambourger, B. Sherman, **Smitha Pillai**, J. Bergkamp, D. Patterson, J. Tomlin, E. Mariño-Ochoa, M. Videa, D. Gust, T. A. Moore and A. L. Moore, Sixth International Conference on Porphyrins and Phthalocyanines ICPP-6, Santa Ana, NM. (Presented by A. Moore), 2010.
 19. Carotenoid Photoprotection in Artificial Photosynthetic Antennas, **Smitha Pillai**, M. K. Klotz, G. Kodis, J. T. M. Kennis, R. van Grondelle, D. Gust, T. A. Moore and A. L. Moore, 32nd DOE Solar Photochemistry Research Meeting, Annapolis, MD. (Poster Presented by A. Moore), 2010.
 20. Design of Photoelectrochemical Cells for Water Splitting and Fuel Production, G. F. Moore, M. Hambourger, B. Sherman, **Smitha Pillai**, J. Bergkamp, D. Patterson, J. Tomlin, E. Mariño-Ochoa, M. Videa, D. Gust, T. A. Moore and A. L. Moore, 2010 OCU International Symposium on the Foundation of Environmental Research, The Integrated Advanced Research Institute of Osaka City University, Awaji Yumebutai International Conference Center. (Presented by A. L. Moore), 2010.
 21. Design of Photoelectrochemical Cells for the Splitting of Water to Hydrogen and Oxygen, G. F. Moore, M. Hambourger, **Smitha Pillai**, J. Bergkamp, J. Tomlin, B. Sherman, E. Mariño-Ochoa,

M. Videa, D. Gust, T. A. Moore and A. L. Moore, Inter-American Photochemistry Society 20th Winter Conference, St. Pete Beach. (Presented by A. L. Moore), 2010.

WORKSHOPS/EVENTS

1. Online Undergraduate Research Scholars Symposium, ASU, 2023.
2. The Frank Rhodes Lecture Series: The Science of learning: A community based research activity, 2023.
3. Green Chemistry Connections: Towards a Global Community of Transformation in Green Chemistry Education, 2023.
4. Integrating Green Chemistry into your organic lab: a workshop (online) with Dr. Gregory Friested, University of Iowa, 2022.
5. Implementing a Next Generation Digital Learning Environment for Chemistry (NGDLEC). 27th Biennial Conference on Chemical Education, 2022.
6. Creating assignments that provide evidence of student transferable skills. 27th Biennial Conference on Chemical Education, 2022.
7. Teaming up with undergraduate Learning Assistants (LAs) to foster active and inclusive chemistry learning environments. 27th Biennial Conference on Chemical Education, 2022.
8. ACS Webinar; Enhancing Online Laboratory Experiences: Insights from Organic Inorganic and Physical Chemistry Courses, 2020.
9. Cengage Virtual Science Symposium, 2019.
10. Engaging Organic Chemistry Students in an Active Learning Process That Promotes Development of Critical Thinking Skills and the Ability to Apply Essential Concepts. 25th Biennial Conference on Chemical Education, 2018.
11. Teaching Cultural Issues in Organic Chemistry Labs. 25th Biennial Conference on Chemical Education, 2018.
12. Organic Chemistry Reactions Couple 3D Animation to 2D Scheme. 25th Biennial Conference on Chemical Education, 2018.
13. Assessment of Mechanism Exam Questions in the Second Semester of Organic Chemistry. 25th Biennial Conference on Chemical Education, 2018.
14. A Guide to Teaching and Learning of Scientific Writing, Peer Review, and Science Communication. 25th Biennial Conference on Chemical Education, 2018.
15. Active Learning in Organic Chemistry: Backward Design. 25th Biennial Conference on Chemical Education, 2018.
16. Attended Conference Interact: The Text-book Innovation Conference for Higher Education, 2018.
17. Attended the EdPlus Academic Integrity Webinar, 2018.
18. Attended and Participated in Workshop 3 of the Faculty Lunch and Learn Workshops Series: Getting Students to Engage More, ASU, 2018.
19. Attended and Participated in Workshop 1 of the Faculty Lunch and Learn Workshops Series: Understanding Perceived Cultural Variations, ASU, 2018.
20. Teach Online Showcase, 2017.
21. PlayPosit workshop, ASU, 2017.
22. Using one button studio to create videos workshop, ASU, 2017.
23. Instructor presence: Engage and Connect with impact webinar, ASU, 2017.
24. Best practices for teaching online-ASU online faculty expectations webinar, ASU, 2017.
25. CLAS Demofest, ASU, 2016.
26. Just-In-Time Webinar: Blackboard course check-up, ASU, 2015.
27. Just-In-Time Webinar: Setting dates in Blackboard and using the course calendar module, ASU, 2015.
28. Online course development checklist webinar, ASU, 2015.
29. Attended and successfully completed, *How to actively engage your students*, Spring, ASU, 2015.
30. Attended *e-learning Demofest*, ASU, 2013.