



PERSONAL INFORMATION

Name: Fei Chen

Work Address: N2198 UNC Hospitals, CB#7010, Chapel Hill, North Carolina 27599-7010

Work Phone: (919) 966-5136

EDUCATION

GRADUATE

08/30/2010 - 05/07/2015	State University of New York Albany, New York, USA	Doctor of Philosophy, Educational Psychology and Methodology
05/30/2019 – 12/17/2022	North Carolina State University Raleigh, North Carolina, USA	Master of Statistics
09/01/2005 – 07/02/2008	East China Normal University Shanghai, China	Master of Education, Developmental and Educational Psychology

UNDERGRADUATE

09/01/2001 – 07/01/2005	East China Normal University Shanghai, China	Bachelor of Science, Psychology
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CERTIFICATIONS/LICENSURE

Certified Specialist_ Base Programming	SAS	01/08/2022, No expiration date
Instructional Design and E-Learning/Educational Technology	North Carolina State University Graduate Certificate in Teaching, Training, and Teaching, and Educational Technology	05/2020, No expiration date
Mental Health First Aider USA	National Council for Behavioral Health	07/26/2018 – 7/26/2021
Statistical Learning (Completion with Distinction)	Stanford Online	08/2017, No expiration date
Responsible Conduct of Research	University of North Carolina at Chapel Hill	07/24/2017, No expiration date

PROFESSIONAL EXPERIENCE

03/01/2020 -	Assistant Professor	University of North Carolina
09/08/2015 – 02/29/2020	Anesthesiology Education Research Scientist/ Education Research Specialist	Department of Anesthesiology University of North Carolina Department of Anesthesiology
08/15/2010 – 05/07/2015	Graduate Research Assistant	State University of New York School of Education
06/01/2014 – 07/31/2014	Summer Research Intern	Educational Testing Service,

HONORS

2023 Philip Liu Award for Innovation in Anesthesia Education – Education Research Society for Education in Anesthesia

“Unprofessionalism in Anesthesiology: Development of a Framework of Unprofessional Behavior Based on Multi-institutional Vignette Survey”

2022 Top Abstract Award

Thoracis Anesthesia Symposium and Society of Cardiovascular Anesthesiologists Annual Meeting

“Preoperative Ace Inhibitor and Angiotensin Receptor Blocker Therapy: Associations with Increased Vasopressin Use in Patients Undergoing Video Assisted Thoracoscopic Wedge Resection or Lobectomy”

2020 Best Work-in-Progress Paper Award

Immersive Learning Research Network Annual Conference Online, IEEE

“Testing of a virtual patient: linguistic and display engagement findings”

2018 *Medical Education’s* Silver Quill Award

The Association of the Study of Medical Education

Highest average downloads per month from *Medical Education* in 2017, “A systematic review of the effectiveness of flipped classrooms in medical education”

2018 Runner up - Philip Liu Award for Innovation in Anesthesia Education

Innovation in Curriculum, Society for Education in Anesthesia

“A family focused experience to enhance wellbeing of new anesthesia residents: CA-1 wellness orientation and family experience”

2017 1st Place Award - Research Abstract

Annual International Meeting on Simulation in Healthcare

“Validity of simulation-based assessments for ACGME milestone achievement”

2016 1st Place Award - Scientific Research Abstract

Society for Education in Anesthesia Spring Meeting

“The predictive value of pre-recruitment academic achievement on resident performance in anesthesiology”

2014 *Gifted Child Quarterly’s* Paper of the Year Award

National Association for Gifted Children Annual Meeting

“Three paradigms of gifted education in search of conceptual clarity in research and practice”

2014 Professional Development Fellowship

American Educational Research Association

AERA Institute on Statistical Analysis for Education Policy: Causal Analysis Using International Data

BIBLIOGRAPHY AND PRODUCTS OF SCHOLARSHIP

BOOK AND BOOK CHAPTERS:

1. Tobias, S., Fletcher, J. D., Bediou, B., Wind, A., & **Chen, F.** (2014). Multimedia learning with computer games. In R. E. Mayer (Ed.) *The Cambridge Handbook of Multimedia Learning* (pp.762-784). New York, NY: Cambridge University Press.
2. Dai, Y., & **Chen, F.** (2013). *Paradigms of gifted education: A guide for use-inspired research*. WACO, TX: Prufrock Press.
3. **Chen, F.** & Dai, D. Y. (2013). Talent identification. In D. Y. Dai, & J. Cai (Eds.) *Gifted education in the USA* (pp.27-36). China: Zhejiang Education Press.
4. Li, X., & **Chen, F.** (2010). *Psychosocial Development: Self-regulation in Adolescence*. Shanghai, China: Science & Technology Press.

REFEREED (PEER – REVIEWED) PUBLISHED PRODUCTS OF SCHOLARSHIP:

Research

1. **Chen F**, Stiegler M, Martinelli S, Arora H, Isaak R. No miracles in two minutes: A randomized controlled study on the impact of preparatory expansive posing on anesthesiology residents' performance in mock structured oral examinations. *The Journal of Education in Perioperative Medicine* (in press, accepted 02/22/2023)
2. Zisblatt L, Moquin R, Ayres FGR, Dillman D, DiLorenzo AN, Grantham AE, MacEachern MP, Peoples EE, **Chen F**. Critical appraisal of anesthesiology educational research for 2020. *The Journal of Education in Perioperative Medicine: JEPM* (in press, accepted 05/11/2023).
3. **Chen F**, Powers K, Goetzinger A M, et al. Exploring the impact of book club participation on clinicians' empathy and reflection on empathetic practice: A wake-up call. *Cureus*. 2023; 15(5): e39656.
4. **Chen, F**, Rahim S, Isaak R, Chidgey B, Teeter E, Arora H, Martinelli, SM. Maintaining social support in the era of social distancing: transitioning an in-person family-oriented wellness event to a virtual venue. *eLearn 2023*, Special Issue, Article 4.
5. **Chen F**, Isaak R, Afroze F, et al. A multi-site survey study on the association between the Covid-19 pandemic and united states anesthesiology residents' mental health. *Cureus*. 2023; 15(2): e34782.
6. Barnes RH, Baumann CA, Woody N, **Chen F**, Creighton RA, Kamath GV, Spang JT. Prescribing fewer opioids after rotator cuff repair and anterior cruciate ligament reconstruction lowers opioid consumption without impacting patient-reported pain scores. *Arthroscopy, Sports Medicine, and Rehabilitation*. 2022; 4(5): e1653–e1658.
7. Zisblatt L, **Chen F**, Dillman D, DiLorenzo AN, MacEachern MP, Juve AM, Peoples EE, Grantham AE. Critical appraisal of anesthesiology educational research for 2019. *The Journal of Education in Perioperative Medicine: JEPM*. 2022; 24(2): 1-21.
8. Gray L, **Chen F**, Teeter EG, Kolarczyk LM, Smeltz AM. Evaluation of the Simpson's method to determine left ventricular ejection fraction using the transgastric two-chamber view. *Seminars in Cardiothoracic Anesthesiology*. 2022;26(3):195-199.
9. Blomberg BA, **Chen F**, Dallaghan GL, MacDonald J, Wilson L. Development and evaluation of a faculty teaching boot camp before and during the COVID-19 pandemic. *Cureus*. 2022 Jun;14(6): e26237.
10. Brown KB, Cook A, **Chen F**, Martinelli SM. A perspective on wellness in anesthesiology residency programs: a multi-strategy approach. *Anesthesiology Clinics*. 2022 Jun; 40(2):257-74. (Invited)
11. Kazior MR, **Chen F**, Isaak R, Dhandha V, Cobb KW. Perception precedes reality: A simulation and procedural bootcamp improves residents' comfort with transitioning to clinical anesthesiology training. *Cureus*. 2022 Jan;14(1): e21706.
12. Zwemer E, **Chen F**, Dallaghan GL, Shenvi C, Wilson L, Martinelli SM, Resnick-Kahle M, Crouner J, Joyner BL, Westervelt L, Jordan JM. Reinvigorating an Academy of Medical Educators using Ecological Systems Theory. *Cureus*. 2022 Jan;14(1): e21640.

13. Zisblatt L, Byrne M, **Chen F**, Caldwell M. Graduate medical education can be an impetus for behavior changes in physicians in practice: Point-of-care ultrasound faculty development intervention in anesthesiology. *Journal of Continuing Education in the Health Professions*. 2022; 42(2):90-6.
14. Greenberg MR, Lawrence MB, **Chen F**, Ross EM. Piloting a new curriculum: guided at-home pediatric regional anesthesia education using a portable ultrasound. *Cureus*. 2021; 13(9): e17933.
15. Martinelli SM, **Chen F**, Isaak RS, Hendrickse A, Mahoney B, Diachun CAB, Mitchell JD, Transitioning to virtual meetings: experiences from the Society for Education in Anesthesia virtual fall 2020 meeting. *J Educ Perioper Med*. 2021; 23(3): E667.
16. Woodworth GE, Marty AP, Tanaka PP, Ambardekar AP, **Chen F**, Duncan MJ, Fromer IR, Hallman MR, Klesius LL, Ladlie BL, Mitchell SA. Development and pilot testing of entrustable professional activities for US anesthesiology residency training. *Anesthesia & Analgesia*. 2021;132(6):1579-91.
17. Bowler C, Bourgeois AJ, Draconi C, Hamra CA, Rubenstein D, **Chen F**. A critical reflection on the experience of non-physician ("public") members in Milestones 2.0 work groups. *Journal of Graduate Medical Education*. 2021;13(2s):11-3.
18. Martinelli SM, **Chen F**, Isaak RS, Huffmyer JL, Neves SE, Mitchell JD. Educating anesthesiologists during the coronavirus disease 2019 pandemic and beyond. *Anesthesia & Analgesia*. 2021 Mar 1;132(3):585-93.
19. Straube LE, Fardelmann KL, Penwarden AA, **Chen F**, Harker E, Redmon BF, Li Q, Strauss R, Smith KA. Nitrous oxide analgesia for external cephalic version: A randomized controlled trial. *Journal of Clinical Anesthesia*. 2021; 68:110073.
20. Martinelli SM, Isaak RS, Chidgey BA, Bullard TL, DiLorenzo A, Rebel A, **Chen F**. Family comes first: a pilot study of the incorporation of social support into resident well-being. *The Journal of Education in Perioperative Medicine: JEPM*. 2020;22(4).
21. Barnes RH, Shapiro JA, Woody N, **Chen F**, Olcott CW, Del Gaizo DJ. Reducing opioid prescriptions lowers consumption without detriment to patient-reported pain interference scores after total hip and knee arthroplasties. *Arthroplasty today*. 2020;6(4):919-24.
22. Cheng I, Powers K, Mange D, Palmer B, **Chen F**, Perkins B, Patterson S. Interprofessional education through healthcare hotspotting: Understanding social determinants of health and mastering complex care through teamwork. *Journal of Interprofessional Education & Practice*. 2020; 20:100340.
23. Lawrence MB, Keil DS, Maves GS, **Chen F**, Jones SW, Baboolal HA. improved intraoperative hemodynamics in burn surgery: an institutional change to pediatric-specific hemostasis solutions. *Journal of Burn Care & Research*. 2020 Feb;41(2):289-92.
24. Zisblatt L, Grantham AE, Dillman D, DiLorenzo AN, MacEachern MP, Juve AM, Peoples EE, **Chen F**. critical appraisal of anesthesiology educational research for 2018. *The Journal of Education in Perioperative Medicine: JEPM*. 2020 Jan;22(1).
25. Martinelli SM, Isaak RS, Schell RM, Mitchell JD, McEvoy MD, **Chen F**. Learners and luddites in the twenty-first century: bringing evidence-based education to anesthesiology. *Anesthesiology*. 2019 Oct;131(4):908-28.
26. **Chen F**, Carter TB, Maguire DP, Blanchard EE, Martinelli SM, Isaak RS. Experience is the teacher of all things: prior participation in anesthesiology OSCEs enhances communication of treatment options with simulated high-risk patients. *The Journal of Education in Perioperative Medicine: JEPM*. 2019;21(3): E626.
27. **Chen F**, Arora H, Zvara DA, Connolly A, Martinelli SM. Anesthesia myTIPreport: A web-based tool for real-time evaluation of accreditation council for graduate medical education's milestone competencies and clinical feedback to residents. *A&A Practice*. 2019 Jun;12(11):412-5.
28. Zisblatt L, **Chen F**, Dillman D, DiLorenzo AN, MacEachern MP, Juve AM, Peoples EE, Grantham AE. Critical appraisal of anesthesiology educational research for 2017. *Cureus*. 2019;11(6): e4838.

29. Martinelli SM, **Chen F**, Mcevoy MD, Zvara DA, Schell RM. Utilization of the flipped classroom in anesthesiology graduate medical education: an initial survey of faculty beliefs and practices about active learning. *The Journal of Education in Perioperative Medicine: JEPM*. 2018;20(1): 1-15.
30. Isaak RS, **Chen F**, Martinelli SM, Arora H, Zvara DA, Hobbs G, Stiegler MP. Validity of simulation-based assessment for Accreditation Council for Graduate Medical Education milestone achievement. *Simulation in Healthcare*. 2018;13(3):201-10.
31. Isaak R, Stiegler M, Hobbs G, Martinelli SM, Zvara D, Arora H, **Chen F**. Comparing real-time versus delayed video assessments for evaluating ACGME sub-competency milestones in simulated patient care environments. *Cureus*. 2018;10(3): e2267.
32. Martinelli SM, **Chen F**, Hobbs G, Chidgey BA, Straube LE, Zvara D, Isaak R. The use of simulation to improve family understanding and support of anesthesia providers. *Cureus*. 2018;10(3).
33. **Chen F**, Andrade H. The impact of criteria-referenced formative assessment on fifth-grade students' theater arts achievement. *The Journal of Educational Research*. 2018;111(3):310-9.
34. **Chen F**, Arora H, Martinelli SM, Teeter E, Mayer D, Zvara DA, Passannante A, Smith KA. The predictive value of pre-recruitment achievement on resident performance in anesthesiology. *Journal of Clinical Anesthesia*. 2017; 39:139-44.
35. Zhang R, Li D, **Chen F**, Ewalds-Kvist BM, Liu S. Interparental conflict relative to suicidal ideation in Chinese adolescents: The roles of coping strategies and meaning in life. *Frontiers in Psychology*. 2017; 8:1010.
36. Martinelli SM, **Chen F**, DiLorenzo AN, Mayer DC, Fairbanks S, Moran K, Ku C, Mitchell JD, Bowe EA, Royal KD, Hendrickse A. Results of a flipped classroom teaching approach in anesthesiology residents. *Journal of graduate medical education*. 2017;9(4):485-90.
37. Isaak RS, **Chen F**, Arora H, Martinelli SM, Zvara DA, Stiegler MP. A descriptive survey of anesthesiology residency simulation programs: how are programs preparing residents for the new American Board of Anesthesiology APPLIED certification examination?. *Anesthesia & Analgesia*. 2017 Sep;125(3):991-8.
38. **Chen F**, Lui AM, Martinelli SM. A systematic review of the effectiveness of flipped classrooms in medical education. *Medical education*. 2017;51(6):585-97.
39. **Chen F**, Arora H, Martinelli SM. Use of key performance indicators to improve milestone assessment in semi-annual Clinical Competency Committee meetings. *The journal of education in perioperative medicine: JEPM*. 2017;19(4):1-5.
40. **Chen F**, Lui AM, Andrade H, Valle C, Mir H. Criteria-referenced formative assessment in the arts. *Educational Assessment, Evaluation and Accountability*. 2017 Aug;29(3):297-314.
41. Willie C, **Chen F**, Joyner BL, Blasius K. Using high-fidelity simulation for critical event training. *Med Educ*. 2016;50(11):1161-2.
42. Isaak R, **Chen F**, Hobbs G, Martinelli SM, Stiegler M, Arora H. Standardized mixed-fidelity simulation for ACGME milestones competency assessment and objective structured clinical exam preparation. *Medical Science Educator*. 2016;26(3):437-41.
43. Brookhart SM, **Chen F**. The quality and effectiveness of descriptive rubrics. *Educational Review*. 2015; 67(3):343-68.
44. Brown GT, Andrade HL, **Chen F**. Accuracy in student self-assessment: directions and cautions for research. *Assessment in Education: Principles, Policy & Practice*. 2015;22(4):444-57.
45. Dai DY, **Chen F**. Three paradigms of gifted education: In search of conceptual clarity in research and practice. *Gifted child quarterly*. 2013; 57(3):151-68.
46. Brooke G, **Chen F**, Lui A, Valle C. Using a mixed-methods survey of alumni for program evaluation and improvement: A case study from a doctoral program in education. *The Researcher*. 2013;25(1):21-33.

Editorials/Letters/Infographics

1. **Chen F**, Chen W, Isaak R, Xu S. Acquire, curate, diversify: Staying current with key medical education literature. *Academic Medicine* (online ahead of print):10.1097/ACM.0000000000005300, June 16, 2023. | DOI: 10.1097/ACM.0000000000005300
2. **Chen F**, Isaak R, Steiner B, Martinelli S, COVID-19 impacts University of North Carolina medical students' perception of the future. *North Carolina Medical Journal*. 2021;82(1):84-85.
3. **Chen F**, Lui AM, Martinelli SM. In response to Vanneman et al. on studies on the effectiveness of flipped classrooms. *Medical Education*. 2018; 52(8): 877-877. (Invited)
4. **Chen F**, Martinelli SM, Arora H. Overnight call and cognitive functioning: Will tablet-based assessment be the solution for safety check in residents? *J Clin Anesth*. 2017; 40:123-124. (invited editorial)
5. Martinelli SM, **Chen F**, Hobbs GW, et al. You will never walk alone: A simulation experience for caregiver's family and friends. *Anesth Analg*. 2017;125(6):2171.

REFEREED (PEER-REVIEWED) OTHER PRODUCTS OF SCHOLARSHIP (PUBLISHED ABSTRACTS):

1. Martinelli SM, Isaak RS, Canter C, Meltzer-Brody S, Nichols K, Grewe M, **Chen F**. Innovation Abstract The Family Experience: A Family-Focused Support Intervention to Enhance Wellness in Undergraduate Medical Education (manuscript # AcadMed-D-23-00661). November 2023 RIME Supplement to *Academic Medicine*
2. **Chen F**, Lee Y, Hubal R. Work-in-progress—testing of a virtual patient: Linguistic and display engagement findings. *2020 6th International Conference of the Immersive Learning Research Network (iLRN), IEEE*. 2020 Jun; 348-350.
3. **Chen, F.**, Stiegler, M., & Isaak, R. Global rating scores have a strong correlation to competence referenced checklist scores for OSCE. *Anesth Analg*. 2017;124(5):1161
4. Stiegler, M. P, Martinelli, S., **Chen, F.**, Arora, H., Hobbs, G., & Isaak, R. Validity of simulation-based assessments for ACGME milestone achievement. *Simulation in Healthcare*. 2016: 11(6): 435
5. Isaak, R., Stiegler, M., **Chen, F.**, & Arora, H. Financial Analysis and Cost-Saving Strategy for a Large-Scale Objective Structured Clinical Exam for Residents. *Simulation in Healthcare*. 2016: 11(6): 487

REFEREED UNPUBLISHED ORAL PRESENTATIONS/ABSTRACTS:

Oral Presentations:

1. Martinelli SM, Isaak RS, Canter C, Meltzer-Brody S, Nichols K, Grewe M, Chen F. *The family experience: A family-support intervention to enhance wellness in undergraduate medical education*. Innovation Abstract presentation, Learn Serve Lead 2023: The AAMC Annual Meeting, November 3-7, 2023, Seattle, WA. (solicited)
2. Chen F, Belgique ST, Canter C, Boscardin CK, Willie C, Mitchell J, Sullivan K, Martinelli SM. *Unprofessionalism in anesthesiology: Development of a framework of unprofessional behavior based on a multi-institutional vignette survey*. Oral abstract presentations in the scientific research category, Society for Education in Anesthesia Spring Meeting, Seattle, WA, April 14, 2023 (solicited)
3. Shaffer J, Teeter E, Chen F, Rojas A. *Preoperative Ace Inhibitor and Angiotensin Receptor Blocker Therapy: Associations with Increased Vasopressin Use in Patients Undergoing Video Assisted Thoracoscopic Wedge Resection or Lobectomy*. Thoracic Anesthesia Symposium and Society of Cardiovascular Anesthesiologists Annual Meeting, Palm Springs, CA, May 13, 2022. (Solicited)
4. Barnes RH, Woody N, **Chen F**, Creighton RA, Kamath GV, Spang JT. *Reducing Opioids Following Sports Procedures Lowers Consumption Without Impacting Pain*. Podium presentation at: Arthroscopy Association of North America Annual Meeting, San Francisco, CA, May 2022. (Solicited)

5. Barnes RH, Woody N, **Chen F**, Creighton RA, Kamath GV, Spang JT. *Reducing Opioids Following Sports Procedures Lowers Consumption Without Impacting Pain*. Podium presentation at: American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 2022. (Solicited)
6. Barnes RH, Woody N, **Chen F**, Creighton RA, Kamath G, Spang JT. (July, 2021). *Reducing Opioids Following Sports Procedures Lowers Consumption Without Impact Pain*. Oral Presentation, Southern Orthopaedic Association 38th Annual Meeting. Isle of Palms, SC. (Solicited)
7. Leopold R, Allred CA, Greenberg M, McNulty L, Flynn D, Bhatia M, **Chen F**. (October, 2020) *The Majority of ASA Physical Status Assessments are Incorrect without Education*. Oral presentation, presented at the American Society of Anesthesiologists national meeting, Virtual Meeting due to the COVID-19. (Solicited)
8. Bullard TL, Arora H, **Chen F** (April, 2020). *Improving Residents' Financial Literacy as an Essential Component of Wellness*. Oral Presentation as Top 3 Abstract, Innovative Curriculum, Society for Education in Anesthesia Spring Annual Meeting. Cancelled due to the COVID-19* (Solicited)
9. Hammond, B., Lim, D., Mai, C., **Chen, F.**, McDaniel, M., & Blasius, K. (March, 2019) *Ready, set, play: A multi-institutional study on empowering resident preparedness through pediatric anesthesia video tutorials*. Oral Presentation at the SPA/AAP Pediatric Anesthesiology, Houston, TX. (Solicited)
10. **Chen, F.**, Isaak, RS., Carter, T., & Maguire, DP. (April, 2018). *Could prior experience enhance resident performance in objective structured clinical examinations?* Research oral abstract presented at Society for Education in Anesthesia Spring Annual Meeting, Louisville, KY. (Solicited)
11. Martinelli, SM., **Chen, F.**, Rebel, A., Schell, R., Dilorenzo, A., & Isaak, RS. (April, 2018) *A Family Focused Experience to Enhance Wellbeing of New Anesthesia Residents: CA-1 Wellness Orientation and Family Experience*. Innovative curriculum oral abstract presented at Society for Education in Anesthesia Spring Annual Meeting, Louisville, KY. (Solicited)
12. Grantham, A. & **Chen, F.** (April, 2018). *Competency-based assessment in graduate medical education: Challenges and recommendations*. Roundtable paper presented at the annual convention of the American Education Research Association (AERA), New York, NY. (Solicited)
13. Stiegler, M. P, Martinelli, S., **Chen, F.**, Arora, H., Hobbs, G., & Isaak, R. (January, 2017). *Validity of simulation-based assessments for ACGME milestone achievement (#24835)*. Scientific Research abstract presented at the 17th International Meeting on Simulation in Healthcare (IMSH 2017), Orlando, Florida. (Solicited)
14. Isaak, R., Stiegler, M., **Chen, F.**, & Arora, H. (January, 2017) *Financial Analysis and Cost-Saving Strategy for a Large-Scale Objective Structured Clinical Exam for Residents*. Program Innovation abstract presented at the 17th International Meeting on Simulation in Healthcare (IMSH 2017), Orlando, Florida. (Solicited)
15. **Chen, F.**, Hobbs, G. Martinelli, S.M., Stiegler, M., Arora, H., Bortsov, A., & Isaak R. (November, 2016). *Delayed Video Evaluations are Effective for Assessing Milestones in a Simulated Patient Care Environment*. Research oral abstract presented at the 2016 AAMC Annual Meeting, Seattle, WA. (Solicited)
16. **Chen, F.**, Arora, H., Martinelli, S. M., Mayer, D., Passannante, A., Smith, K. (June, 2016). *The Predictive Value of Pre-Recruitment Academic Achievement on Resident Performance in Anesthesiology*. Research oral abstract presented at Society for Education in Anesthesia Spring Annual Meeting, Baltimore, MD. (Solicited)
17. Dai, D. Y., & **Chen, F.** (November, 2013). *Toward a paradigmatic approach to research in gifted education*. Presentation at the National Association for Gifted Children annual convention, Indianapolis, IN. (Solicited)

Posters:

1. Powers, K., & Chen, F. (2023, September). Mixed methods study of Teaming Up for Community Health simulation intervention. *National Center for Interprofessional Practice and Education NEXUS Summit*. Virtual poster presentation with flip presentation. (solicited)
2. Coe C, Applegate H, Colcord C, Poston J, Hughes M, Latessa R, Pino J, **Chen F**. *Towards Precision Education: Lessons from an Accelerated Medical Pathway Program*. Poster presentation, IAMSE Meeting, Cancun, Mexico, June 10-13, 2023 (solicited). (solicited)
3. Trivedi J, **Chen F**, McMillan D, Jolly M, Allan J, Coombs R, Nanda M, Isaak R, An X, Grant S, Rojas A (April 20-22). Annual Regional Anesthesiology and Acute Pain Medicine Meeting ASRA Pain Medicine. Poster presentation, Hollywood, FL. (solicited)
4. **Chen F**, Belgique ST, Canter C, Boscardin CK, Willie C, Mitchell J, Sullivan K, Martinelli SM. *Unprofessionalism in anesthesiology: Development of a framework of unprofessional behavior based on a multi-institutional vignette survey*. Poster presentations in the scientific research category, Society for Education in Anesthesia Spring Meeting, Seattle, WA, April 14, 2023. (solicited)
5. Kazior M, Shah P, **Chen F**. *Booster Sessions for Perioperative ACLS Improves Management of OR Megacodes in Novice Anesthesia Residents*. Poster presentations in the scientific research category, Society for Education in Anesthesia Spring Meeting, Seattle, WA, April 14, 2023 (solicited)
6. Brandon, J., Powers, K., & **Chen, F**. (2022, October). *Teaming Up for Community Health (TUCH): A mixed methods study*. Poster presentation at 16th Annual South Eastern Nurse Educator Symposium, Asheville, NC.
7. **Chen F**, Stiegler M, Martinelli S, Arora H, Isaak R (April, 2022). *No miracles in two minutes: Preparatory expansive posturing has no impact on anesthesiology residents' performance in mock oral examinations*. Poster presentation in the scientific research category, 2022 SEA Annual Meeting. (Solicited)
8. **Chen F**, Powers K, Al-Kadhi F, Goetzing AM, Patidar S, Moulthrop AJ, Pamacheche C, Martinelli SM (Nov, 2021). *A wakeup call: Shaping empathetic practice in medicine using book club*. Poster, 2021 UNC SOM Wellness Scholarship Expo. Virtual. (Solicited)
9. Martinelli SM, Isaak RS, Ehlers M, Mulaikal T, Licatano L, Ladlie B, Jain A, Willie C, Bairde E, Hayes B, Carter T, Zisblatt L, Diachun C, Martin T, Marshall J, Huffmyer J, Hindle K, **Chen F**. (April, 2021). *Unexpected Minimal Impact of COVID-19 on Anesthesiology Resident Well-being*. Post Presentation. International Conference on Physician Health (ICPH) 2021 Annual Meeting. Virtual. (Solicited)
10. Gray L, **Chen F**, Teeter E, Kolarczyk L, Smeltz A. (April, 2021). *Evaluation of Simpson's Method to Determine Left Ventricular Ejection Fraction Using the Transgastric Two-chamber View*. Scientific Program Poster Presentation. Society of Cardiovascular Anesthesiologists (SCA) Annual Meeting and Thoracic Anesthesiology Symposium. Virtual Meeting. (Solicited)
11. McKenzie CP, **Chen F**, Straube L, Johnson J, Stuebe AM, Cobb BC. (May, 2021). *Evaluating Racial/Ethnic Inequities in the Utilization of Liposomal Bupivacaine Truncal Blocks following Cesarean Delivery*. Poster Presentation. SOAP 53rd Annual Meeting. Virtual Format. (Solicited)
12. Kazior, M, **Chen, F**, Isaak, R, Shah, P, and Cobb, K. (April, 2021). *A Simulation and Procedural Skills Bootcamp Improves Resident's Perceptions on Transitioning to Clinical Anesthesiology Training*. Poster Presentation. Society for Education in Anesthesia (SEA) Spring Meeting, Virtual. (Solicited)
13. Bullard TL, Arora H, **Chen F** (April, 2021). *Improving Residents' Financial Literacy as an Essential Component of Wellness*. Poster Presentation, Innovative Curriculum, Society for Education in Anesthesia Spring Annual Meeting. Virtual. (Solicited)
14. Barton J, **Chen F**, Chew CY, Ross E, Ross S, Low A. (April, 2021) *Diverging Streams: Moving from Caudal to Ultrasound-guided Pudendal Blocks for Hypospadias Repair, an Outcomes Review at a Single Medical Institution*. Moderated Poster presentation, SPPM Virtual 8th Annual Meeting. Virtual Format. (Solicited)
15. Barton J, **Chen F**, Chew CY, Ross E, Ross S, Low A. (February, 2021) *Diverging Streams: Moving from Caudal to Ultrasound-guided Pudendal Blocks for Hypospadias Repair, an Outcomes Review at a Single Medical Institution*. Moderated Poster presentation, presented at the combined virtual conference

- presented by the Society of Pediatric Anesthesia and American Academy of Pediatrics Section on Anesthesiology and Pain Medicine, *February 25-28, 2021*. (Solicited)
16. **Chen F**, Lee Y, Hubal R. (June, 2020) *Testing of a Virtual Patient: Linguistic and Display Engagement Findings*, presented as a Work-in-Progress Paper. iLRN 2020 virtual conference online and in virtual reality. (Solicited)
 17. Tybout C, Rojas A, **Chen F**, Teeter EG (April, 2020). *Preoperative Ace Inhibitor and Angiotensin Receptor Blocker Therapy: Associations with Increased Vasopressor Use in Patients Undergoing Video Assisted Thoracoscopic Wedge Resection or Lobectomy*. Poster Presentation, Society of Cardiovascular Anesthesiologists Annual Meeting and Thoracic Anesthesia Symposium. Cancelled due to the COVID-19* (Solicited)
 18. Lawrence MB, Keil DS, Maves GS, **Chen F**, Jones SW, Baboolal HA (Feb, 2020). *Unexpected Reduction in Surgical Blood Loss after Safety Intervention*. Poster Presentation, Society for Pediatric Anesthesia Annual Meeting, Bahamas. (Solicited)
 19. Lawrence, M.B., Steiner, M.J., **Chen, F.**, Blasius, K.R. (October, 2019). *What Matters? Teaching Pediatric Residents How to Effectively Perform Preoperative Clinic Assessments*. Poster presented at the American Society of Anesthesiologists national meeting on Monday, October 21, Orlando, FL. (Solicited)
 20. Lawrence, M.B., Steiner, M.J., **Chen, F.**, Blasius, K.R. (October, 2019). *What Matters? Teaching Pediatric Residents How to Effectively Perform Preoperative Clinic Assessments*. Featured abstract presented at the American Society of Anesthesiologists national meeting on Sunday, October 20, Orlando, FL. (Solicited)
 21. Martinelli, S.M., **Chen, F.**, & Isaak, R. (May 2019). *The family experience: A family focused support intervention to enhance wellness in undergraduate medical students*. Poster presentation at the Academy of Educators Evening of Scholarship, Chapel Hill, NC. (Solicited)
 22. King, A., **Chen, F.**, & Blasius, K. (May 2019). *Metaiodobenzylguanidine iodine-131 anxiolysis sedation preparation through use of High Fidelity Simulation-based education*. Poster presentation at the SPS 2019 Annual Conference at The Hyatt Regency in Aurora, CO, May 20-22, 2019. (Solicited)
 23. Leopold, R., Golden, L., Bullard, T., Spang, J., **Chen. F.** (May 2019). *Reduction of Femoral Nerve Block Administration for Arthroscopic Anterior Cruciate Ligament Reconstruction*. Research poster presented at Society of Ambulatory Anesthesia Annual Meeting. Austin, TX. (Solicited)
 24. Rose, K.M., Hill, A.A., Rojas, A.F., Snow, E., Myers, S., **Chen, F.**, Hobbs, G., Isaak, R.S., Kolarczyk, L.M., & Henry, M.E. (October, 2018) *A Simulation Study to Evaluate Improvements in Pacu Nstemi Response Following Implementation of A Clinical Pathway*. Research poster presented at the Anesthesiology Annual Meeting, San Francisco, CA. (Solicited)
 25. Park, J., Yang, J., Doerr, P., C., Marvi, N., **Chen, F.** Passannante, A. N., Arora, H. (October, 2018). *Trying to Stay Warm: A Quality Improvement Project to Prevent Perioperative Hypothermia in a Hybrid Operating Room*. Research poster presented at the Anesthesiology Annual Meeting, San Francisco, CA. (Solicited)
 26. Kazemi, A., **Chen, F.**, Isaak, R. (April, 2018). *OSCE Simulation in Assessment of Efficacy of Training in Regional Anesthesiology*. Poster presented at 2018 World Congress on Regional Anesthesia & Pain Medicine, New York, NY. (Solicited)
 27. **Chen, F.**, Stiegler, M., & Isaak, R. (May, 2017). *Global Rating Scores Have a Strong Correlation to Competence Referenced Checklist Scores for OSCE*. Poster presented at International Anesthesia Research Society 2017 Annual Meeting and International Science Symposium, Washington, DC. (Solicited)
 28. **Chen, F.**, Harendra, A., Martinelli, S.M. (April, 2017). *Use of Key Performance Indicators for Milestone Assessment In Semi-Annual Clinical Competency Committee Meetings*. Poster presented at Society for Education in Anesthesia Spring Annual Meeting, Jacksonville, FL. (Solicited)
 29. Martinelli, S. M., **Chen, F.**, Arora, H., Zvara, D., Connolly, A. (April, 2017). *Implementing a Technology-Based Cognitive Aid for Feedback in Accordance with ACGME Milestone Competencies in Anesthesiology*.

Poster presented at Society for Education in Anesthesia Spring Annual Meeting, Jacksonville, FL. (Solicited)

30. Wang, X., Lim, H., & **Chen, F.** (April 2017). *Application of Propensity Score Analysis in Linking without Anchor Items*. Poster presented at the annual convention of American Education Research (AERA), San Antonio, TX. (Solicited)
31. **Chen, F.**, & Andrade, H. L. (April, 2016). The Impact of Criteria-Referenced Formative Assessment on Fifth-Grade Students' Theater Arts Achievement. Poster presented at the annual convention of the American Education Research Association (AERA), Washington, DC. (Solicited)
32. **Chen, F.**, & Lui, Angela, M. (April, 2015). *The Role of Instructional Practices and Socio-Economic Status in US 4th Grade Mathematics Achievement on TIMSS 2011*. Poster presented at the annual convention of the American Education Research Association (AERA), Chicago, IL. (Solicited)
33. **Chen, F.**, Olivera-Aguilar, M., Rikoon, S., Jackson, T., Robbins, S. B. (April, 2015). Quasi-experimental study of the effect of course acceleration on student success in college mathematics courses, Poster presented at the annual convention of the American Education Research Association (AERA), Chicago, IL. (Solicited)
34. Valle, C., Lui, Angela, M., **Chen, F.**, & Andrade, H. L. (April, 2015). An Empirical Investigation of Criteria-Referenced Formative Assessment in the Arts: Year Two. Poster presented at the annual convention of the American Education Research Association (AERA), Chicago, IL. (Solicited)
35. **Chen, F.**, & Tobias, S. (April, 2014). *Cognitive processes in adapting to unexpected changes: The role of metacognitive monitoring*. Poster presented at the annual convention of the American Education Research Association (AERA), Philadelphia, PA. (Solicited)
36. Andrade, H., **Chen, F.**, Lui, A., Mir, H. & Valle, C. (April, 2014). *An empirical investigation of criteria-referenced formative assessment in the arts*. Paper presented at the annual convention of the American Education Research Association (AERA), Philadelphia, PA. (Solicited)
37. Warner, Z., **Chen, F.**, & Andrade, H. (October, 2012). *Student self-assessment in middle school mathematics: A pilot study*. Paper presented at the annual meeting of the Northeastern Educational Research Association, Rocky Hill, CT. (Solicited)

Workshops:

1. Society of Directors of Research in Medical Education (SDRME) Diversity, Equity, and Inclusion Special Interest Group: **Chen F**, Hugget K, Jeffe D, Pusic M Examining Systemic Bias in our Medical School Assessments: Applying Evidence-Informed Guidelines to Address and Research Systemic Bias, Given at SDRME Summer Meeting, New Orleans, LA, Jun 5, 2023 (Solicited)
2. **Chen F**, Moquin R, Zisblatt L, Strutz P. Program faculty, workshop presenter/moderator, Overcoming Common Roadblocks to Medical Education Research, Society for Education in Anesthesia Spring Meeting, Seattle, WA, April 15, 2023 (Solicited)
3. Cerza D, **Chen F**, Mitchell J, Sakai T. Program faculty, workshop presenter/moderator, Abstract to Publication – Turning your Education Projects into Publishable Scholarship, Society for Education in Anesthesia Spring Meeting, Seattle, WA, April 15, 2023 (Solicited)
4. **Chen, F.** Program faculty and session moderator, SNAP Talks, Association of Anesthesiology Program Administrators and Educators (AAPAE) Concurrent Session, Society of Academic Associations of Anesthesiology & Perioperative Medicine (SAAAPM) Annual Meeting, Chicago, IL, Nov 11, 2022. (Invited)
5. **Chen, F.** Program faculty and session speaker, Round Tables: Step-by-Step How to Write an Abstract, AAPAE Concurrent Session, SAAAPM Annual Meeting, Chicago, IL, Nov 11, 2022. (Invited)
6. **Chen F**, Jackson C, Miller Juve A, Moquin R, Zisblatt L. Program faculty, workshop presenter/moderator, Let's Play! Fun Games to Learn Serious Skills for Impacting Team Dynamics, Society for Education in Anesthesia Fall Meeting, Chicago, IL, Nov 10, 2022 (Solicited)

7. Society of Directors of Research in Medical Education (SDRME) Diversity, Equity, and Inclusion Special Interest Group: Jeffe D, Pusic M, Wyatt T, Sawning S, McKee A, Blanco M, **Chen F**, Horsley T, Hugget K. A Case-Based Discussion of Collecting and Analyzing Medical Learner Data With a DEI Lens. Given at SDRME Summer Meeting, Burlington, VT, Jun 14, 2022 (Solicited)
8. McKee AC, O'Sullivan PS, Blanco MA, Huggett KN, Pusic M, Wyatt TR, Sawning S, **Chen F**, Jeffe DB, Horsley T. workshop instructor/moderator, Framing Diversity, Equity, Inclusion, and Justice Research Practices Across Professions, American Educational Research Association (AERA) annual convention, Apr 24, 2022, Division I Virtual session (solicited)
9. **Chen, F**. Program faculty and session moderator, SNAP Talks, Association of Anesthesiology Program Administrators and Educators (AAPAE) Concurrent Session, Society of Academic Associations of Anesthesiology & Perioperative Medicine (SAAAPM) Annual Meeting, Nov 5, 2021, Virtual session due to COVID. (Invited)
10. **Chen, F**. Program faculty and session speaker, Round Tables: Step-by-Step How to Write an Abstract, AAPAE Concurrent Session, SAAAPM Annual Meeting, Nov 5, 2021, Virtual session due to COVID. (Invited)
11. Society of Directors of Research in Medical Education (SDRME) Diversity, Equity, and Inclusion Special Interest Group: Jeffe DB, Pusic M, Wyatt T, Sawning S, McKee A, Blanco M, **Chen F**, Horsley T, O'Sullivan P. What is the role of a Medical Education Research Director in DEI efforts at Academic Health Centers? Given at: SDRME Summer Meeting, Virtual Workshop, June 7-9, 2021. (Solicited)
12. **Chen, F**. Session Facilitator, American Medical Association (AMA) Accelerating Change in Medical Education February Thematic Discussion Series: Supporting Medical Educators during Disruption and Beyond. Fostering Individual Educator Resilience, March 1st, 2021. Virtual. (Invited)
13. **Chen, F**. Program faculty and session moderator, Small Group Discussion Breakouts for Educators, AAPAE Concurrent Session, SAAAPM Annual Meeting, Nov 6, 2020, Virtual session due to COVID. (Invited)
14. **Chen, F**. Program faculty and session moderator, AAPAE SNAP Chats/Breakout Preview, Oct 23, 2020, Virtual session due to COVID. (Invited)
15. **Chen, F**. Program faculty and session moderator, The Role of the Non-Physician Educators in Growing Scholarly Output, Society for Education in Anesthesia Fall Meeting, Virtual meeting due to COVID, April, 2020. (Invited)
16. **Chen, F**. Program faculty and session moderator, Data Visualization, AAPAE Concurrent Session, SAAAPM Annual Meeting, Chicago, Illinois, USA, Nov, 2019 (Invited)
17. **Chen, F**. Program faculty and session moderator, Starting in Research/Career Advancement for Scholars/Educators, AAPAE Concurrent Session, SAAAPM Annual Meeting, Chicago, Illinois, USA, Nov, 2019 (Invited)
18. **Chen, F**. Program faculty and session facilitator, Best of the Year, Society for Education in Anesthesia Spring Meeting, Denver, Colorado, USA, Apr, 2019. (Invited)

OTHER

1. Martinelli SM, **Chen F**, Chidgey BA, Zvara DA, Isaak RS. Simulation exercise improved family understanding and support of anesthesia providers. STEPS Forward. April 2, 2020. Accessed April 9, 2020. <https://edhub.ama-assn.org/steps-forward/module/2763263>
2. Tobias, S., Fletcher, J. D., & **Chen, F**. (2015). Digital games as educational technology: promise and challenges in the use of games to teach. Educational Technology. 55(5), 3-12.

3. **Chen F.,** & Andrade H. (2015). Authentic Assessment. In R.Gunstone (Ed.) Encyclopedia of Science Education: SpringerReference (www.springerreference.com). Springer-Verlag Berlin Heidelberg, 2013. DOI: 10.1007/SpringerReference_302881 2013-08-21 13:59:31 UTC
4. **Chen, F.** & Andrade, A. (2013). Promoting reflection and revision: Formative uses of rubrics in the classroom. The Indian Journal of Educational Assessment. 3(1), 6-15. New Delhi: India.(Invited)

TEACHING ACTIVITIES

Course Director:

2020-present Academic Medicine Rotation (AMR) Co-director

This curriculum provides comprehensive exposure to necessary non-patient contact related physician skills. Topics centered around four domains: critical appraisal of literature of literature, quality improvement, professional development, and teaching.

Duration: 5 weeks #Anesthesiology First Post-Graduate Year (PGY1)

LECTURES

LECTURES TO RESIDENTS

Department of Anesthesiology, University of North Carolina

10/11/2022	Instructor, Basic Board Prep Session: Mathematics, Department of Anesthesiology, UNC at Chapel Hill
2016 – 2022	Instructor, Abstract Writing Workshop and Brainstorm, Academic Medicine Rotation, Department of Anesthesiology, UNC at Chapel Hill (Reoccurring annual workshop)
2015 – 2022	Instructor, Writing an Abstract, Academic Medicine Rotation, Department of Anesthesiology, UNC at Chapel Hill (Reoccurring annual lecture)
2015 – 2022	Instructor, Review of Study Designs and Smart Searching, Academic Medicine Rotation, Department of Anesthesiology, UNC at Chapel Hill (Reoccurring annual lecture)
2015 – 2022	Instructor, Quality Improvement Statistics, Academic Medicine Rotation, Department of Anesthesiology, UNC at Chapel Hill. (Reoccurring annual lecture)
2019	Instructor, Designing a QI Poster, Academic Medicine Rotation, Department of Anesthesiology, UNC at Chapel Hill
2015 – 2019	Instructor, PowerPoint Presentations, Academic Medicine Rotation, Department of Anesthesiology, UNC at Chapel Hill (Reoccurring annual lecture)

CONTINUING EDUCATION LECTURES (UNC)

06/20/2023	“Medical Education Scholarship” with Beka Layton, Susan Martinelli Academy of Educators Teaching Bootcamp 2.0, School of Medicine (invited)
09/28/2022	“Starting an Educational Research Project” Academy of Educators FLAGship (Faculty/Fellow Leadership and Growth) Program Workshop, School of Medicine (Invited)
01/20/2022	“Want to Get Published? How to Turn the Educational Work You are Already Doing into Scholarly Projects” Faculty Development Seminar Series Lecture, Department of Anesthesiology (Invited)
09/02/2021	“Starting an Educational Research Project” Academy of Educators FLAGship (Faculty/Fellow Leadership and Growth) Program Workshop, School of Medicine (Invited)
04/19/2021	“Want to Get Published? How to Turn the Educational Work You are Already Doing into Scholarly Projects”

Academy of Educators Scholarship Workshop, School of Medicine (Invited)

11/05/2020 "Want to Get Published? How to Turn the Educational Work You are Already Doing into Scholarly Projects"
Faculty Development Seminar Series Lecture, Department of Anesthesiology (Invited)

03/11/2020 "Lecture and Discussion – My Journey into Educational Research"
with Susan Martinelli, Academy of Educators, School of Medicine (Invited)

CONTINUING EDUCATION LECTURES (OUTSIDE UNC)

04/25/2023 Application of Realist Evaluation. AMA ChangeMedEd Reimagining Residency Evaluation Meeting, Chicago, IL. (invited)

09/14/2021 "Anesthesia Education in the Time of COVID"
International Anesthesia Research Society (IARS)
Virtual Education Webinar Society for Education in Anesthesia (SEA) Panel (along with John Mitchell, MD, Susan Martinelli, MD, Julie Huffmyer, MD, Sara Neves, MD, solicited)

10/01/2020 "Less" Traditional Publishing Avenues"
Panel session with Jed Wolpaw, MD, MEd and Steven Shafer, MD, Society for Education in Anesthesia Fall Meeting, Virtual meeting due to COVID. (Invited)

INTERVIEWS

05/13/2021 AOE Engage: The Podcast. From the University of North Carolina at Chapel Hill School of Medicine. <https://anchor.fm/uncaoe/episodes/9-Fei-Chen-e10pcna>

MENTORSHIP EXPERIENCES

Society for Education in Anesthesia (SEA)

07/2023-06/2024 Mentor, Dr. Oluwakemi (Kemi) Tomobi at West Virginia University, SEA Research Mentorship Program (second term)

07/2022-06/2023 Mentor, Dr. Oluwakemi (Kemi) Tomobi at Johns Hopkins University, SEA Research Mentorship Program

Department of Anesthesiology, University of North Carolina

06/2023 Mentor, Seidah Congleton, 2023 Castillo Scholar

07/2021- 05/2023 Mentor, Samuel Taketo Belgique, 4th year medical student Anesthesiology Research Rotation. Received DRE Student Research Travel Award in Feb 2023

05/2021-06/2021 Mentor, Sania Rahim, 4th year medical student Anesthesiology Research Rotation

RESEARCH PROJECTS AND GRANTS

01/01/23 – 06/30/2024 Fully Integrated Readiness for Service Training (FIRST)
Funding: Reimagining Residency Initiative, American Medical Association (AMA). (PI: Catherine L. Coe), \$1.8 million
Role: Evaluator

10/01/2022-09/30/2023 E-Learning Module for Advanced Cardiovascular Life Support (ACLS) Defibrillator Management

	<p>Funding: United States Veterans Health Administration (VHA) Innovators Network; Spark-Seed-Spread (PI, Michael Kazior, Virginia Commonwealth University), \$20,000 Role: Co-Investigator</p>
09/01/2019-08/30/2022	<p>Teaming up for community health: Mixed methods study of an innovative interprofessional simulation intervention Funding: National League for Nursing: NLN Foundation for Nursing Education Research Grant (PI: Kelly Powers, UNC Charlotte), \$25,000 Role: Consultant (methods/statistical support)</p>
09/01/2019-06/30/2023	<p>Family Anesthesia Experience: Educating Residents and their Support Persons to Improve Relationships and Increase Wellness Funding: Joy in Medicine Practice Transformation Initiative, American Medical Association (AMA). (PI: Susan.M. Martinelli), \$50,367 Role: Co-Investigator</p>
07/01/2018-12/30/2022	<p>The Family Experience: A Family Focused Support Intervention (FFSI) to Enhance Wellness in Undergraduate Medical Education Funding: 2018 Group on Educational Affairs (GEA) National Educational Research Grant, Association of American Medical Colleges (AAMC). (PI: Susan.M. Martinelli), \$11,770. Role: Co-Investigator</p>
04/30/2016-04/30/2017	<p>Implementing and Validating a Technology-based Cognitive Aid for Feedback in Line with ACGME Milestone Competencies in Anesthesiology Funding: UNC SOM Academy of Educators Kathleen Rao Educational Scholarship Cooperative Agreement. (PI: Susan. M. Martinelli), \$7000. Role: Co-Investigator</p>

PROFESSIONAL SERVICE

To Discipline:

National Professional Organizations

4/25/2023 – 10/20/2023	<p>Interventional Pulmonology Milestones 2.0 workshop Accreditation Council for Graduate Medical Education (ACGME) Role: Committee member</p>
07/01/2022 -	<p>The Society of Directors of Research Medical Education (SDRME) Role: Chair of the Nominations Committee</p>
04/27/2022 -	<p>Research Mentorship Program SEA Role: Mentor (Invited)</p>
04/08/2022	<p>Oral presentation sessions (Research, curriculum) at SEA Spring meeting Role: Judge (Invited)</p>

11/18/2021 -	Research Committee SEA Role: Member, Abstract Reviewer
11/01/2020 – 11/12/2022	AAPAE Role: Council Member - Assessment and Scholarship Second Term
10/01/2020- 06/30/2021	Committee on Education Meetings Society for Education in Anesthesia (SEA) Role: Member
05/20/2020- 06/30/2021	Committee on Advancement of Technology in Education SEA Role: Member
01/17/2020 -	The Society of Directors of Research Medical Education (SDRME) Role: Member, UNC representative
11/01/2018 – 10/31/2020	AAPAE Role: Council Member - Assessment and Scholarship First Term
09/04/2018-10/02/2020	2020 Fall Meeting Committee SEA Role: Co-chair
2018 - 2019	Milestones Development Committee Pulmonary Disease/Critical Care Medicine/Pulmonary Critical Care Accreditation Council for Graduate Medical Education (ACGME) Role: Public member
10/20/2017-	Committee on Resident Education SEA Role: Member
2017-	American Society of Anesthesiologists (ASA) Role: Member
2016-	Association of Anesthesiology Program Administrators and Educators (AAPAE) Role: Member
2012-	American Educational Research Association (AERA) Role: Member
2017-2018	International Anesthesia Research Society (IARS) Role: Member
2014-2016	National Association for Gifted Children (NAGC) Role: Member

Within University of North Carolina, Chapel Hill:

UNC Department of Anesthesiology Committees

09/06/2022 – present	Diversity, Equity, & Inclusion (DEI) Committee, Member
07/2022 – 01/2023	Education Leadership Interview/Selection Committee, Member
	Positions: Residency Assistant Program Director, Pediatrics Fellowship Program Director, Vice Chair of Education
05/16/2022 - present	The Excellence in Anesthesiology at Chapel Hill Education Research (TEACHER) Lab, Founder and Co-Director
10/13/2021 - present	Wellness faculty subcommittee, Member
04/15/2021 - present	Recruitment committee, Member
12/10/2017 - present	Wellness committee, Member
09/08/2015 - present	Program Evaluation Committee, Member
09/08/2015 - present	Research Committee, Member
09/08/2015 - present	Clinical Competency Committee, Member

UNC Hospital and School of Medicine Committees and Programs

01/01/2023 – present	Director, Evaluation and Assessment, Office of Medical Education
12/01/2022 – present	AOE Scholarship Committee, Chair
07/01/2022 – present	Academy of Educators (AOE) Scholarship Consult Service Director
07/01/2022 – present	Peer Observation Program Scholarly Lead
01/01/2020 - 02/05/2020	AOE Scholarship Grant consultant
03/29/2019 - present	AOE member
09/26/2018 - present	AOE Leadership Council, Standing Member
09/26/2018 – 11/30/2022	AOE Scholarship Committee, Member

EDITOR/REFEREE/REVIEWER

Editor

09/05/2019-	Associate editor, BMC Medical Education
10/23/2019-	Editorial Board member of ATS Scholar (5y term)

Journal Manuscript Reviewer

Advances in Health Sciences Education
Asia Pacific Education Review
BMC Medical Education
British Journal of Educational Technology
Computers & Education
Frontiers in Education
International Journal of Nursing Studies
Journal of Clinical Anesthesia
Journal of Continuing Education in the Health Professions
Journal of Education in Perioperative Medicine
Journal of Statistical Software
Medical Education

Medical Teacher

Plos One

Studies in Educational Evaluation

Teaching and Learning in Medicine

The Journal of Graduate Medical Education (JGME 2022 Outstanding Reviewer)

Conference Abstract/Proposal Reviewer

2023	AOE Evening of Scholarship Poster Award Judge
2021- 2023	SEA, Spring Meeting Submissions (Curriculum, Research)
2018 - 2019	AERA, Div D, Div H, Div I, Classroom Assessment SIG
2018 - 2019	AAMC Call for Medical Education Submissions (Innovation Highlights in Medical Education, Research Highlights in Medical Education, Sessions on Medical Education)
2017	Southern Group on Educational Affairs (SGEA) Annual Meeting
2015	AERA, Classroom Assessment SIG

Grant Reviewer

2023	AOE Kathleen Rao Educational Scholarship Grant Review Committee, Chair
2019	AOE Kathleen Rao Educational Scholarship Grant Review Committee, Member

DIVERSITY, EQUITY AND INCLUSION ACTIVITIES

DEI Special Interest Group Membership

11/18/2021-	UNC SOM The New Asian American Faculty Association Group member
04/23/2021-	UNC Health Asian American Interest Group member
10/01/2020-	The Society of Directors of Research Medical Education Special Interest Group member on Diversity, Equity and Inclusion

DEI Training and Certificates

03/06/2023	Achieving Equity in Health Care workshop, UNC SOM's DEI Certificate Program
04/21/2022	Can We Talk about Race? UNC SOM Office of Inclusive Excellence
06/10/2021	Respecting All Workshop sponsored by the SOM's DEI Certificate Program
05/12/2021	Unconscious Bias Awareness Workshop sponsored by the SOM's DEI Certificate Program
04/30/2021	AOE Certificate of Completion, UNC Narrative Medicine Anti-Racism Program
03/29/2021	Diversity: Inclusion in the Modern Workshop Certificate of Completion, NCSU
03/29/2021	Managing Bias Certificate of Completion, NCSU

RESEARCH STATEMENT

I have published over 30 peer-reviewed educational research journal articles. I have made original contributions to medical education research with a focus on the application of learning from instructions and assessment to education in healthcare professions. I have investigated a variety of topics on the use of technology-enhanced assessment and active learning techniques in medical education such as flipped classrooms and simulation-based assessment for learning. The significant contributions of my work in medical education research have been recognized by the multiple paper and national/international conference abstract awards I have been granted. In addition, my professional service as a judge of the work of others in medical education is highly recognized and acclaimed by the journal editors and the international educational research community.

Advances in medicine and medical education demand rigorous assessment and evaluation to assure that they are effective and will ultimately improve medical care. Distinguished medical practitioners who develop new

treatments or diagnostic procedures rarely have the knowledge and skills to conduct the appropriate assessment tools and rigorous evaluations needed so that the advances reach the field and improve medical practice. My contribution has been to work in tandem with innovative practitioners and educators who develop knowledge and invent practices and procedures that lead to improved practice and, in turn, improved health of our population.

I have been an active member of several DEI special interest groups, including the UNC SOM New Asian American Faculty Association Group, UNC Health Asian American Interest Group, and The Society of Directors of Research Medical Education (SDRME) Special Interest Group member on Diversity, Equity, and Inclusion. I have presented and moderated several workshops at SDRME Annual Meetings and AERA annual convention on the topic of the DEIJ. Through my DEI related work, I made contributions to framing educational research as a lever for social justice, and help learners identify research methods that facilitate recognition and exploration of DEIJ perspectives in the research process. All these works are beneficial to raising awareness of evolving research and assessment methods that attend to aspects of DEIJ, linking that to DEIJ efforts across the professions, and sharing both good practices and challenges.

TEACHING STATEMENT

I am currently the co-director of the Anesthesiology Resident Academic Medicine Rotation of Department of Anesthesiology, UNC. While managing the administration of the rotation, I also teach several reoccurring special topic workshop sessions on quality improvement statistics, research design, and academic abstract writing. I view teaching as not merely an exercise in conveying facts, but also as an opportunity to provide tools. My primary goal as a teacher is to provide students with thinking and problem-solving skills that benefit their learning and development. To help my students obtain a scientific perspective on research, I assign tasks and in-class activities that resemble what the professionals do in real-life academic practices. I require my students to write abstracts and research proposal on topics they find interesting, present their ideas to their peers in poster sessions, provide and receive constructive critiques on the works by themselves and their peers, and provide multiple opportunities for revision on their work based on feedback from teacher, peers, and criteria-referenced self-assessment. The authentic tasks not only allow my students to experience real-life professional challenges and work practices, but also give them opportunities to apply the methodological knowledge they learn onto their own projects. The articulation of feedback and comments to the works by themselves and their peers also acts as a good process during which students have the opportunities to deepen their understanding of the knowledge and methodology under discussion as well as to take a scientific perspective on research process and findings. The use of authentic tasks and formative assessment collectively makes my students well-grounded in the scientific study approaches and able to carry the scientific perspective with them as they continue to learn more about medicine and patient care in the future.

It is my hope that the learning experiences in my class equip my students with some essential thinking skills and fundamental knowledge that are required for educated consumers in the era of knowledge explosion.