



**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**

05/30/2019 – 12/17/2022	North Carolina State University Raleigh, North Carolina, USA	Master of Statistics
08/30/2010 - 05/07/2015	State University of New York Albany, New York, USA	Doctor of Philosophy, Educational Psychology and Methodology
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**

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
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 (Tenure-track) Anesthesiology Education	University of North Carolina Department of Anesthesiology
09/08/2015 – 02/29/2020	Program Coordinator/ Education Research Specialist	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 Center for Academic and Workforce Readiness and Success	Educational Testing Service, Princeton, New Jersey

## **HONORS**

### **2024 Scholarship Award**

**Academy of Educators Evening of Scholarship, University of North Carolina School of Medicine**

### **2024 Best Poster Award**

**Academy of Educators Evening of Scholarship, University of North Carolina School of Medicine**

“Educating Anesthesiology Residents and their Support Persons to Improve Relationships and Increase Wellness: A multi-site study”

### **2024 Top Educational Abstract Award**

**University of Florida Department of Anesthesiology Celebration of Research Meeting**

“Development and Validation of an Online, Interactive Defibrillator Simulation for Advanced Cardiovascular Life Support Providers”

### **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**

**Thoracic 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 1<sup>st</sup> Place Award - Research Abstract**

**Annual International Meeting on Simulation in Healthcare**

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

### **2016 1<sup>st</sup> 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**

**BOOKS 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.** Belgique, ST, Canter C, Boscardin CK, Willie C, Mitchell JD, Sullivan K, Martinelli SM, Unprofessionalism in anesthesiology: A qualitative study on classifying unprofessional behavior in anesthesiology residency education, *J Clin Anesth.* 2024 Aug;95:111429. doi: 10.1016/j.jclinane.2024.111429. Epub 2024 Mar 8. PMID: 38460412.
2. Woodworth GE, Goldstein ZT, Ambardekar AP, Arthur ME, Bailey CF, Booth GJ, Carney PA, **Chen F**, Duncan MJ, Fromer IR, Hallman MR, Hoang T, Isaak R, Klesius LL, Ladlie BL, Mitchell SA, Miller Juve AK, Mitchell JD, McGrath BJ, Shepler JA, Sims CR, Spofford CM, Tanaka PP, Maniker RB. Development and pilot testing of a programmatic system for competency assessment in us anesthesiology residency training. *Anesth Analg.* 2024 May; 138(5):1081-1093.
3. **Chen F**, Jordan K, Li W, Lam Y, Pascarella L, Coe C. Academic performance of students in an accelerated medical pathway. *Medical Education Online.* 2024 Dec 31;29(1):2345444. doi: 10.1080/10872981.2024.2345444. Epub 2024 Apr 28.
4. Powers KP, Brandon J, **Chen F.** Teaming up for community health simulation intervention: A quasi-experimental study, *Nurs Educ Perspect.* 2024 Mar 19. doi: 10.1097/01.NEP.0000000000001253. Online ahead of print.
5. Martinelli SM, Tran TN, Chidgey BA, Isaak RS, Teeter EG, **Chen F.** Family Anesthesia Experience: Improving Social Support of Residents Through Education of Their Family and Friends. *MedEdPORTAL.* 2023 Dec 15;19:11370.
6. **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: JEPM.* 2023; 25(2): E700.

7. 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*. 2023; 25(3): E708.
8. **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.
9. **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.
10. **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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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)
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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.

24. 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.
25. 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).
26. 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.
27. 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.
28. 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.
29. 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).
30. 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.
31. **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.
32. **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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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).
38. **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.
39. **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.

40. 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.
41. 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.
42. 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.
43. **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.
44. **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.
45. **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.
46. Willie C, **Chen F**, Joyner BL, Blasius K. Using high-fidelity simulation for critical event training. *Med Educ*. 2016;50(11):1161-2.
47. 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.
48. Brookhart SM, **Chen F**. The quality and effectiveness of descriptive rubrics. *Educational Review*. 2015; 67(3):343-68.
49. 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.
50. 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.
51. 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.

#### REFEREED (PEER – REVIEWED) PRODUCTS OF SCHOLARSHIP (IN PRESS):

1. Blacker S, **Chen F**, Winecoff D, Antonio B, Arora H, Hierlmeier B, Kacmar R, Passannante A, Plunkett A, Zvara D, Cobb B, Doyal A, Rosenkrans D, Brown K, Gonzalez M, Hood C, Pham T, Lele A, Hall, L, Ali A, Isaak R. An exploratory analysis of ChatGPT compared to human performance with the anesthesiology oral board exam: Initial insights and implications, *Anesthesia & Analgesia* (in press, accepted 11/20/2023). 22 typed pages

#### Editorials/Letters/Infographics

1. **Chen F**, Martinelli SM, In response to ‘Counting episodes of poor-quality faculty anesthesiologists’ supervision and anesthesia residents’ work habits among reported vignettes of insufficient professionalism’. *Journal of Clinical Anesthesia*. 2024 Aug: 95:111456. Epub 2024 Apr 3. (Invited)
2. **Chen F**, Chen W, Isaak R, Xu S. Acquire, curate, diversify: Staying current with key medical education literature. *Academic Medicine*. 2024: 99(2): 235.
3. **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.

4. **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)
5. **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)
6. 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**. The Family Experience: A Family-Focused Support Intervention to Enhance Wellness in Undergraduate Medical Education. *Academic Medicine*. 2023; 98(11S):S180-S181
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. *Anesthesia & Analgesia*. 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 (Research):

1. Kazior M, **Chen F**, Samouce C, Gravenstein N, Lampotang S, Martinelli S. (April, 2024). Development and Validation of an Online, Interactive Defibrillator Simulation for Advanced Cardiovascular Life Support Providers. Oral Presentation. Society for Education in Anesthesia (SEA) Spring Meeting, Philadelphia, PA. (solicited)
2. Kazior M, **Chen F**, Martinelli S, Poudel A, Lizdas D, Lampotang S, Samouce C. (February, 2024) *Development and Validation of an Online, Interactive Defibrillator Simulation for Advanced Cardiovascular Life Support Providers*. Oral and Poster Presentation, University of Florida Department of Anesthesiology Celebration of Research Meeting, Gainesville, FL. (solicited)
3. Martinelli SM, Isaak RS, Canter C, Meltzer-Brody S, Nichols K, Grewe M, **Chen F**. (November, 2023) *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, Seattle, WA. (solicited)
4. **Chen F**, Belgique ST, Canter C, Boscardin CK, Willie C, Mitchell J, Sullivan K, Martinelli SM. (April, 2023). *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 (solicited)
5. Shaffer J, Teeter E, **Chen F**, Rojas A. (May, 2022). *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. (Solicited)
6. Barnes RH, Woody N, **Chen F**, Creighton RA, Kamath GV, Spang JT. (May, 2022). *Reducing Opioids Following Sports Procedures Lowers Consumption Without Impacting Pain*. Podium presentation at: Arthroscopy Association of North America Annual Meeting, San Francisco, CA (Solicited)

7. Barnes RH, Woody N, **Chen F**, Creighton RA, Kamath GV, Spang JT. (March, 2022). *Reducing Opioids Following Sports Procedures Lowers Consumption Without Impacting Pain*. Podium presentation at: American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL (Solicited)
8. 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)
9. 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)
10. 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)
11. 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)
12. **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)
13. 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)
14. 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)
15. 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)
16. 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)
17. **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)
18. **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)
19. 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. Martinelli SM, Tran TN, Canter C, Isaak RS, Afroze F, Mulaikal T, Ladlie B, Jain A, Willie C, Stahl D, Carter T, Zisblatt L, Hoefnagel A, Marshall J, Collins S, Keneally R, Martin T, Chen F. (May, 2024). *Educating*

- Anesthesiology Residents and their Support Persons to Improve Relationships and Increase Wellness: A multi-site study. Post Presentation. UNC SOM Academy of Educators Evening of Scholarship, Chapel Hill, NC.*
2. Blacker S, Chen F, Winecoff D, Isaak RS. (May, 2024). *Comparing ChatGPT vs. Human Performance on the Anesthesiology Oral Board Exam. Post Presentation. UNC SOM Academy of Educators Evening of Scholarship, Chapel Hill, NC. (solicited)*
  3. Martinelli SM, Tran TN, Canter C, Isaak RS, Afroze F, Mulaikal T, Ladlie B, Jain A, Willie C, Stahl D, Carter T, Zisblatt L, Hoefnagel A, Marshall J, Collins S, Keneally R, Martin T, **Chen F.** (March, 2024). *Educating Anesthesiology Residents and their Support Persons to Improve Relationships and Increase Wellness: A multi-site study. Poster presentation, Association for University Anesthesiologists (AUA) meeting, St. Louis, MO. (solicited)*
  4. Congleton S, Chen F, Teeter E, & Isaak R. (November, 2023). *Identifying Factors influencing Anesthesiology Residents Self-Evaluation of ACGME Core Competencies. Poster presentation, John B. Graham Research Society, Chapel Hill, NC. (solicited)*
  5. Powers K, & **Chen F** (September, 2023). *Mixed methods study of Teaming Up for Community Health simulation intervention. Virtual poster with flip presentation. National Center for Interprofessional Practice and Education NEXUS Summit. (solicited)*
  6. Coe C, Applegate H, Colcord C, Poston J, Hughes M, Latessa R, Pino J, **Chen F.** (June, 2023). *Towards Precision Education: Lessons from an Accelerated Medical Pathway Program. Poster presentation, IAMSE Meeting, Cancun, Mexico. (solicited)*
  7. Trivedi J, **Chen F,** McMillan D, Jolly M, Allan J, Coombs R, Nanda M, Isaak R, An X, Grant S, Rojas A (April, 2023). *Beyond the Block: Development of an Assessment Tool to Evaluate Communication and Interpersonal Skills in Regional Anesthesia. Poster presentation. Annual Regional Anesthesiology and Acute Pain Medicine Meeting ASRA Pain Medicine., Hollywood, FL. (solicited)*
  8. **Chen F,** Belgique ST, Canter C, Boscardin CK, Willie C, Mitchell J, Sullivan K, Martinelli SM. (April, 2023). *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. (solicited)*
  9. Kazior M, Shah P, **Chen F.** (April, 2023). *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. (solicited)*
  10. Brandon, J., Powers, K., & **Chen, F.** (October, 2022). *Teaming Up for Community Health (TUCH): A mixed methods study. Poster presentation at 16th Annual South Eastern Nurse Educator Symposium, Asheville, NC.*
  11. **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)*
  12. **Chen F,** Powers K, Al-Kadhi F, Goetzinger 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)*
  13. 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)*
  14. 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)*

15. 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)
16. 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)
17. 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)
18. 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)
19. 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)
20. **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)
21. 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)
22. 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)
23. Lawrence MB, Steiner, MJ, **Chen .**, Blasius KR (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)
24. Lawrence, MB, Steiner MJ, **Chen F**, Blasius KR (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)
25. 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)
26. 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)
27. 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)
28. 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)
29. 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)
  30. 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)
  31. **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)
  32. **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)
  33. 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)
  34. 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)
  35. **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)
  36. **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)
  37. **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)
  38. 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)
  39. **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)
  40. 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)
  41. 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/Talks:

1. **Chen F**, Miller J, O'Brien C, Pusic M, Wyatt T. Equity in Medical Education: Overcoming Legislative Barriers to Diversifying the Workforce. Society of Directors of Research in Medical Education (SDRME) Summer Meeting, Portland, OR, Jun 10, 2024 (Solicited)
2. **Chen F**. Faculty discussant, Idea Lab Lunchtime Breakout: Research, Society for Education in Anesthesia Spring Meeting, Philadelphia, PA, April 20, 2024 (Invited)
3. **Chen, F**. Moderator, Research Oral Abstract Presentations, Society for Education in Anesthesia Spring Meeting, Philadelphia, PA, April 20, 2024 (Invited)
4. **Chen F**, Jackson C, Miller Juve A, Moquin R, Zisblatt L. Workshop presenter, Debunked Learning Styles...Now What? Using Evidence-Based Instructional Practices to Support Learning, Society for Education in Anesthesia Spring Meeting, Philadelphia, PA, April 19, 2024 (Solicited)
5. **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, Society of Directors of Research in Medical Education (SDRME) Summer Meeting, New Orleans, LA, Jun 5, 2023 (Solicited)
6. **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)
7. 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)
8. **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)
9. **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)
10. **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)
11. 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 DEIJ Lens, Given at SDRME Summer Meeting, Burlington, VT, Jun 14, 2022 (Solicited)
12. 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)
13. **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)
14. **Chen, F**. Program faculty and session speaker, Round Tables: Step-by-Step How to Write an Abstract, AAPAE Concurrent Session, SAAAPAM Annual Meeting, Nov 5, 2021, Virtual session due to COVID. (Invited)
15. 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)
16. **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 1<sup>st</sup>, 2021. Virtual. (Invited)
  17. **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)
  18. **Chen, F.** Program faculty and session moderator, AAPAE SNAP Chats/Breakout Preview, Oct 23, 2020, Virtual session due to COVID. (Invited)
  19. **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)
  20. **Chen, F.** Program faculty and session moderator, Data Visualization, AAPAE Concurrent Session, SAAAPM Annual Meeting, Chicago, Illinois, USA, Nov, 2019 (Invited)
  21. **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)
  22. **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](http://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

2022 – present

Instructor, Basic Board Prep Session: Mathematics, Department of Anesthesiology, UNC at Chapel Hill (Reoccurring annual session)

2016 – present

Instructor, Abstract Writing Workshop and Brainstorm, Academic Medicine Rotation (AMR), Department of Anesthesiology, UNC at Chapel Hill (Reoccurring annual session)

Chen, Fei Last updated: August 12, 2024

2015 – present	Instructor, Review of Study Designs and Smart Searching, AMR, Department of Anesthesiology, UNC at Chapel Hill (Reoccurring annual session)
2015 – present	Instructor, Quality Improvement Statistics, AMR, Department of Anesthesiology, UNC at Chapel Hill. (Reoccurring annual session)
2015 – 2022	Instructor, Writing an Abstract, AMR, Department of Anesthesiology, UNC at Chapel Hill (Reoccurring annual lecture)
2019	Instructor, Designing a QI Poster, AMR, Department of Anesthesiology, UNC at Chapel Hill
2015 – 2019	Instructor, PowerPoint Presentations, AMR, Department of Anesthesiology, UNC at Chapel Hill (Reoccurring annual lecture)

#### **CONTINUING EDUCATION LECTURES (UNC)**

Spring 2023 – present	“Medical Education Scholarship” with Layton R, Martinelli S Academy of Educators Teaching Bootcamp 2.0, UNC School of Medicine (invited, annually)
Fall 2021 – present	“Starting an Educational Research Project” Academy of Educators FLAGship (Faculty/Fellow Leadership and Growth) Program Workshop, School of Medicine (Invited, annually)
04/26/2024	“Staying Current with Key Medical Literature” Neurocritical Care Didactics Department of Neurology, UNC Health (invited)
02/14/2024	“Workplace Diversity and Team Dynamics” Department of Anesthesiology Grand Round Presentation (along with Skye Margolies, Seema Patidar, Amy Goetzinger, Samuel Blacker, Annika Webb, Caryn Hertz)
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)
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)**

06/27/2024	“Acquire, Curate, Diversify: Staying Current with Key Medical Education Literature” <i>Chat, Listen, Learn</i> , Brigham Education Institute (BEI), Harvard Medical School (invited, special guest discussant)
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Chen, Fei Last updated: August 12, 2024

- 04/21/2024 "Best of the Year"  
Society for Education in Anesthesia Spring Meeting, Philadelphia, PA (with Drs. Dawn Dillman, Rachel Moquin, Danielle Saab, & Lara Zisblatt, Invited)
- 12/04/2023 "Strategies and Tactics to Conduct Mixed Methods Education Research"  
with Dr. Matthew Weinger  
Association for University Anesthesiologists (AUA) eLearning 2023 Webinar Series. (invited)
- 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, Susan Martinelli, Julie Huffmyer, Sara Neves, 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

#### **GRANTS (EDUCATION RESEARCH)**

##### ACTIVE

- 07/01/2024 – 06/30/2026 Development and Effect of an Electronic Learning Module on Defibrillator Competence in Anesthesia Providers  
Funding: The Foundation for Anesthesia Education and Research (FAER) (PI: Michael Kazior, Richmond Institute for Veterans Research), \$100,000  
Role: Collaborator, 0% FTE effort

11/03/2023-12/31/2025	<p>Unprofessional Behavior in Residency Education: Developing a Taxonomy and Assessing Gender, Racial and Generational Differences in Perception Award: The American Board of Medical Specialties Research and Education Foundation (“ABMS-REF”) 2023-2024 ABMS Visiting Scholars Program™ (“VSP”), \$15,000 Role: Principal Investigator, 0% FTE effort</p>
01/01/2024 - 12/30/2025	<p>INSPECT (Improvement in the Scope and Precision of Educational Cases for Trainees): Phenotyping the Clinical Experience of Trainees Using Electronic Health Records Funding: The Foundation for Anesthesia Education and Research (FAER), FAER-ABA Research in Education Grant (REG) (PI: Matthew Caldwell, University of Michigan), \$100,000 Role: Collaborator, 0% FTE effort</p>
01/01/23 – 07/31/2025	<p>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% FTE effort</p>
01/01/2024 – 12/31/2024	<p>Using Virtual Reality for Teaching Clinical Procedures, Assessing Skills and Enabling Self-Paced Deliberate Practice Funding: Junior Faculty Development Award, funded by IBM and R.J. Reynolds Industries Inc., Office of the Provost, University of North Carolina, \$10,000 Role: Principal Investigator, 0% FTE effort</p>
<u>COMPLETED</u>	
10/01/2022-09/30/2023	<p>E-Learning Module for Advanced Cardiovascular Life Support (ACLS) Defibrillator Management Funding: United States Veterans Health Administration (VHA) Innovators Network; Spark-Seed-Spread (PI, Michael Kazior, Virginia Commonwealth University), \$20,000 Role: Co-Principal Investigator, 0% FTE effort</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-Principal Investigator, 0% FTE effort</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-Principal Investigator, 0% FTE effort</p>

- 09/01/2019-08/30/2022      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), 0% FTE effort
- 04/30/2016-04/30/2017      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, 0% FTE effort

### **GRANTS (EDUCATION PROGRAM)**

- 7/28/2023-5/31/2024      The Science, Technology, Engineering, Mathematics, and Medicine Education Research Collaborative (SERC)  
Funding: Carolina Seminars Program, Office of The Provost, UNC, (Grantee: Rebakah Layton and Fei Chen) \$1600. Awardees: Rebakah Layton and Fei Chen,  
Role: Co-Convener

### **PROFESSIONAL SERVICE**

#### **TO DISCIPLINE**

#### **National Professional Organizations**

- 07/01/2022 – present      Nominations Committee, Chair  
The Society of Directors of Research Medical Education (SDRME)
- 04/27/2022 – present      Research Mentorship Program, mentor (invited)  
Society for Education in Anesthesia (SEA)
- 11/18/2021 – present      Research Committee, member  
SEA
- 01/17/2020 – present      UNC representative, member  
SDRME
- 10/20/2017 – present      Committee on Resident Education, member  
SEA
- 2017 – present      American Society of Anesthesiologists (ASA), Member
- 2016 – present      AAPAE, Member
- 4/25/2023 – 12/30/2023      Interventional Pulmonology Milestones 2.0 Taskforce, committee member  
Accreditation Council for Graduate Medical Education (ACGME)
- 2012- 2023      American Educational Research Association (AERA), Member

11/01/2020 – 11/12/2022	Council Member - Assessment and Scholarship Second Term Association of Anesthesiology Program Administrators and Educators (AAPAE)
04/08/2022	Oral presentation sessions; Judge (invited) SEA Spring meeting
10/01/2020- 06/30/2021	Education Meetings Committee, member SEA
05/20/2020- 06/30/2021	Advancement of Technology in Education Committee, member SEA
11/01/2018 – 10/31/2020	Council Member - Assessment and Scholarship First Term AAPAE
09/04/2018-10/02/2020	2020 Fall Meeting Committee, co-chair SEA
2018 - 2019	Pulmonary Disease/Critical Care Medicine/Pulmonary Critical Care Milestones Development Committee, member ACGME
2017-2018	International Anesthesia Research Society (IARS), Member
2014-2016	National Association for Gifted Children (NAGC), Member

#### **WITHIN UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL**

##### **UNC Department of Anesthesiology Committees**

09/06/2022 – present	Diversity, Equity, & Inclusion (DEI) Committee, Member
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
07/2022 – 01/2023	Education Leadership Interview/Selection Committee, Member Positions: Residency Assistant Program Director, Pediatrics Fellowship Program Director, Vice Chair of Education

##### **UNC Hospital and School of Medicine Committees and Programs**

07/01/2023 – present	AOE Scholarship Committee, Chair
01/01/2023 – present	Director, Evaluation and Assessment, Office of Medical Education
07/01/2022 – present	Academy of Educators (AOE) Scholarship Consult Service Director
07/01/2022 – present	Peer Observation Program Scholarly Lead

Chen, Fei Last updated: August 12, 2024

03/29/2019 – present	AOE member
09/26/2018 – present	AOE Leadership Council, Member
09/26/2018 – 11/30/2022	AOE Scholarship Committee, Member
01/01/2020 - 02/05/2020	AOE Scholarship Grant consultant

### **EDITOR/REFEREE/REVIEWER**

#### **EDITOR**

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

#### **Journal Manuscript Reviewer (Partial List)**

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**

2021 – present	SEA, Spring Meeting Submissions (Curriculum, Research)
2023	AOE Evening of Scholarship Poster Award Judge
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 – present	AOE Kathleen Rao Educational Scholarship Grant Review Committee, Chair
2019	AOE Kathleen Rao Educational Scholarship Grant Review Committee, Member