

Naileshni S. Singh
6136 Reservoir Court
Granite Bay, CA 95746
(916) 221 2543 (cell phone)
naileshnisingh@hotmail.com

I am a medical expert in interventional and non-interventional pain management. I have over 10 years of experience in outpatient and inpatient pain medicine including medication management, procedures, and surgeries including those for neuromodulation. I am in active in clinical practice and treat the following major categories of pain: acute, chronic, spinal, joint, cancer, neuropathic, inflammatory, and musculoskeletal. I am double boarded in anesthesiology and pain medicine with a 10 year recertification.

I am a professor of Anesthesiology and Pain Medicine (promotion July 2023) at a renown academic health center in California but I also have experience in leadership at the national level, research in pain medicine, teaching at the School of Medicine, and managing aspects of clinical work for an academic health system. Lastly, I have approximately three years of experience in providing expert witness testimony for a variety of pain related cases. I meet all the required deadlines and am available to clients for extended hours. My written work and opinions have been included in briefs and I have been effective in explaining my thought process to non-medical personnel. See my extensive CV below.

EMPLOYMENT HISTORY

7/23	Professor, 1 and Health Sciences Clinical Professor Department of Anesthesiology, Division of Pain Medicine University of California, Davis Sacramento, CA Interventional pain expert specializing in acute, chronic, inpatient, and cancer pain care. Perform and oversee a wide variety of interventional pain procedures including neurolytic techniques, sympathetic blocks, and neuromodulation with the use of fluoroscopy and ultrasound. Directly responsible for pain trainee education including providing lectures, simulated exercises, and bedside teaching.
1/16-now	Director, Education for Division of Pain Medicine Oversee all education programs for the Division of Pain Medicine including the pain medicine fellowship, pain pharmacy fellow, resident, medical student and NP/PA chronic pain rotation, CME and provider education.
10/2011-9/2014, 11/2018-now	Instructor of Record/Director, Resident and Student Education Oversee the resident, medical student and NP/PA chronic pain rotation.
7/13-1/16	Director, Pain Management Fellowship
10/11-7/23	Assistant Professor/Associate Professor in the Health Sciences Clinical Professor Series Department of Anesthesia, Division of Pain Medicine University of California, Davis

EDUCATION

August 2010-August 2011	Pain Management Fellowship Department of Anesthesia, Division of Pain Medicine University of California, Davis
July 2007-June 2010	Residency, Anesthesiology and Pain Medicine Department of Anesthesia and Pain Medicine University of California, Davis Chief Resident (June 2009-2010) Research associate at Mather VA Pain Clinic (10/09-12/09)
June 2006-June 2007	Transitional Internship Santa Clara Valley Medical Center
September 2002-April 2006	Doctor of Medicine Stanford University School of Medicine Research Associate, Dept. of Hematology (1/03-2/04)

September 1997-June 2001	Bachelor of Science, Genetics (with High Honors) University of California, Davis Research Associate, Div. of Cardiovascular Medicine (9/99-6/01) Research Associate, Genentech Inc. (6/99-8/99) S.S. Francisco, CA
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LICENSURE & CREDENTIALS

June 2022	Vertiflex training and certification
December 2021	Achieved 10 year ABA recertification
2020?	Abbott Dorsal Root Ganglion training
October 2011	Board Certified, Pain Medicine
September 2010	Board Certified, Anesthesiology
Current	Fluoroscopy, X ray Supervisor and Operator
Current	California State Medical License
Current	Controlled Substances Certified
September 2017	X license
Current	Advanced Cardiovascular Life Support Certification
Current	National Provider Identifier #1669630901

POST GRADUATE EDUCATION

October 2019-2021	Interprofessional Teaching Scholars Program, UCD
September 14, 2019	Dorsal Root Ganglion training hosted by Abbott
September 4, 11, 2019	Crucial Conversations, UCD
July 6-11, 2015	Clinical Epidemiology and Study Design, UCD
September 8-12, 2014	Comprehensive Instructor Workshop in Simulation (Harvard Center for Medical Simulation)
September 2012-May 2013	Early Career Leadership Program, UCD
6/2013	Grant Writing, UCD
2011-ongoing	Enrollment in Maintenance of Certification in Anesthesiology (MOCA)

HONORS/AWARDS

April 2023	Selected as “Diamond Doctor” for UCDHS
November 2022	Moderated poster session, American Society of Regional Anesthesia and Pain Medicine (ASRA) annual meeting
March, April 2022	Moderated poster session, American Society of Regional Anesthesia and Pain Medicine (ASRA) annual meeting
March 2019	Winning poster, American Academy of Pain Medicine annual meeting
February 2016	Fellowship Excellence Award, American Academy of Pain Medicine
June 2015	Center of Excellence Award (to the Division of Pain Medicine), American Pain Society
May 2014	Best Poster Award, Western Anesthesiology Resident Conference
August 2011	Gary Collins, MD Memorial Fellow Teacher of the Year Award
June 2009-June 2010	Chief Resident, Department of Anesthesiology and Pain Medicine at UCD
June 2004	Santa Clara Valley Medical Association Member of the Year
June 2001	Division of Biological Sciences Student of the Year
June 2001	Chancellor’s Merit Award
June 2001	Graduation with High Honors
June 2001	Associate Student UCD Student Prize
June 2001	Dean’s Student Advisory Committee Member of the Year
August 2000	James and Leta Fulmor Scholarship
June 2000	ASUCD Academic Enrichment Scholarship
June 2000	Golden Key Regional Student Leader Award
May 2000	Milkausas Family Scholarship

GRANTS/FUNDING

Ongoing	Sacramento Region Community Foundation- education (\$25,000)
End 2018?	California Healthcare Foundation, ECHO project (PI: Scott Fishman)- tele-mentoring of primary care providers at 22+ clinical sites.
Fall 2014-2017	Macy Foundation (named as “physician champion”, PIs: Scott Fishman and Heather Young)- “Summit on Pain Management Core Competencies for Simulated Learning Module” and

PUBLICATIONS/JOURNAL ARTICLES (Peer Reviewed)

13. **Naileshni Singh**¹, Charles DeMesa¹, Scott Pritzlaff¹, Michael Jung¹, Charlene Green². Implementation of Virtual Multiple Mini-Interviews for Fellowship Recruitment. *Pain Med.* 2021 Apr 19;pnab141. doi: 10.1093/pm/pnab141. Online ahead of print. PMID: 33871655.
12. Servis, M., Fishman, S., Wallace, M., Henry, S., Ziedonis, D., Ciccarone, D., Knight, K., Shoptaw, S., Dowling, P., Suchard, J., Shah, S., **Singh, N.**, Cedarquist, L., Alem, N., Copenhaver, D., Westervelt, M., Willis, B. Responding to the Opioid Epidemic: Educational Competencies for Pain and Substance Use Disorder from the Medical Schools of the University of California. *Pain Medicine*, *Pain Med.* 2021 Feb 4;22(1):60-66. doi: 10.1093/pm/pnaa399. PMID: 33316051
11. **Singh N**, Nielsen AA, Copenhaver DJ, Sheth SJ, Li CS, Fishman SM. *Advancing Simulation-Based Education in Pain Medicine.* *Pain Med.* 2018 Feb 27. doi: 10.1093/pm/pnx344.
10. Jones, J., **Singh, N.**, Nidecker, A., Li, C., and Fishman, S. *Assessing the Agreement Between Radiologic and Clinical Measurements of Lumbar and Cervical Epidural Depths in Patients Undergoing Prone Interlaminar Epidural Steroid Injection.* *Anesth Analg.* 2017 Jan 17. doi: 10.1213/ANE.0000000000001839. PMID: 28099288
9. **Singh N**, De Mesa C. Unusual Hypersensitivity Reaction to Iohexol During Epidural Steroid Injection Resulting in Lipoma Development: A Case Presentation. *PM&R.* 2016 Dec;8(12):1218-1221. doi: 10.1016/j.pmrj.2016.06.005. Epub 2016 Jun 9.
8. Rejaei, D., **Singh, N.**, Sheth, S., Koebner, I., and Fishman, S. *A Novel Approach to the Treatment of Sacroiliac Joint Complex Pain: Bipolar Radiofrequency Ablation Applied in a Palisade Pattern.* *Reg Anesth Pain Med.* 2016 May-Jun;41(3):416-7. PMID: 27093283
7. Arwood, E. Rowe, J. **Singh, N.** et al. *Implementing a Paradigm Shift: Incorporating Pain Management Competencies into Pre-Licensure Curricula.* *Pain Med.* 2015 Feb;16(2):291-300. doi: 10.1111/pme.12563. Epub 2014 Sep 22. PMID: 25244226
6. Fishman SM, Young HM, Lucas Arwood E, Chou R, Herr K, Murinson BB, Watt-Watson J, Carr DB, Gordon DB, Stevens BJ, Bakerjian D, Ballantyne JC, Courtenay M, Djukic M, Koebner IJ, Mongoven JM, Paice JA, Prasad R, **Singh N**, Sluka KA, St Marie B, Strassels SA. *Core Competencies for Pain Management: Results of an Interprofessional Consensus Summit.* *Pain Med.* 2013 Jul;14(7):971-81. E pub 2013 Apr 11. PMID: 23577878
5. **Singh, Naileshni**, Scott Fishman, Anna Orlowski, Ben Rich. *Prescription Opioid Forgery: Reporting to Law Enforcement and Protection of Medical Information.* *Pain Med* 2013 Jun;14(6):792-8. Epub 2013 Mar 5. PMID: 23461809
4. **Singh, Naileshni.** *Patient Education and Self Advocacy: Questions and Responses on Pain Management: Postherpetic Neuralgia.* *Journal of Pain & Palliative Care Pharmacotherapy.* 2011;25:187–189. PMID: 21657870
3. **Singh, Naileshni.** *Patient Education and Self Advocacy: Questions and Responses on Pain Management: Behcet's Disease.* *Journal of Pain & Palliative Care Pharmacotherapy.* 2011;25:283–285. PMID: 21806418
2. Wilsey, Barth, Scott Fishman, Carlos Casamaluapa, **Naileshni Singh.** *Computerized Progress Notes for Chronic Pain Patients Receiving Opioids; the Prescription Opioid Documentation System (PODS).* *Pain Medicine* 2010, 11(11), 1707-1717. PMID: 21044261
1. Rubio, Valerie, Tor B Stuge, **Naileshni Singh**, Michael R Betts, Jeffrey S Weber, Mario Roederer & Peter P Lee. *Ex vivo identification, isolation, and analysis of tumor-cytolytic T cells.* *Nature Medicine* 2003, Nov. 9(11), 1377-82. PMID: 14528297
Stanford Medical School Clinical Journal: *A Patient Interview*, (2002)

BOOK CHAPTERS

8. **N. Singh**, et al. Chapter 12: *Complications and Adverse Events.* *Spinal Cord Stimulation.* Editors: Paul Kreis, Scott Pritzlaff, David Copenhaver, and Scott Fishman. Associate editors: Charles DeMesa, Ammon Hills, Michael Jung, Gagan Mahajan, Ravi Prasad, and Naileshni Singh
7. **N. Singh**, et al. Chapter 11: *Wound healing.* *Spinal Cord Stimulation.* Editors: Paul Kreis, Scott Pritzlaff, David Copenhaver, and Scott Fishman. Associate editors: Charles DeMesa, Ammon Hills, Michael Jung, Gagan Mahajan, Ravi Prasad, and Naileshni Singh
6. **N. Singh**, S. Sheth, J. Zhou. *Neuropathic Pain.* *Primary Care Pain Management.* Editors: Charles De Mesa, Samir J. Sheth, Craig Keenan, Robert M. McCarron. Roslyn John. Wolters Kluwer, September 18, 2019.
5. **N. Singh**, J. Zhou, S. Sheth. *Non-Pharmacological options for treatment of pain.* *Primary Care Pain Management.* Editors: Charles De Mesa, Samir J. Sheth, Craig Keenan, Robert M. McCarron. Roslyn John. Wolters Kluwer, September 18, 2019.
4. **N. Singh**, J. Zhou, S. Sheth. *Neuropathic Pain Medications.* *Primary Care Pain Management.* Editors: Charles De Mesa, Samir J. Sheth, Craig Keenan, Robert M. McCarron. Roslyn John. Wolters Kluwer, September 18, 2019.
3. Reed, M. **N. Singh**, J. Newmark. *Pain Medicine Education in Anesthesia Training.* *Education in Anesthesia: How to*

Provide the Best Learning Experience. Editors: Edwin A Bowe, MD, Randall M Schell, MD, and Amy DiLorenzo. Cambridge University Press. May 22, 2018.

2. Delgado K., Reed, M., **Singh, N.**, and Ramezani, A. *Pain Medicine in the Psychiatric Patient Population, Pain Medicine Section VIII. Study Guide to Preventive Medical Care in Psychiatry*. Editors: Robert M. McCarron, Glen Xiong, Craig R. Keenan, Lorin Scher, Jaesu Han, and Mark E. Servis. November 7, 2016.

1. **Singh, Naileshni**, Scott Fishman, and Kyle Tokarz. *Methadone for Chronic Pain*. Comprehensive Treatment of Chronic Pain by Medical, Interventional and Integrative Approaches, The American Academy of Pain Medicine Textbook on Patient Management, Springer 2013.

POSTER PRESENTATIONS

November 17-19, 2022:	American Society of Regional Anesthesia and Pain Medicine (ASRA) annual meeting Orlando, Florida: chosen as moderated poster session: <i>Correlation of MRI and Ultrasound Epidural Space Depth Measurements and Clinical Loss of Resistance in Epidural Steroid Injections</i> (N.Singh , S. Pritzlaff, C. Yan, B. Garcia, M. Wilson)
March 31-April 2, 2022	American Society of Regional Anesthesia and Pain Medicine (ASRA) annual meeting Las Vegas, NV: chosen as moderated poster session: <i>Use of Immersive Audiovisual Distraction with Virtual Reality (VR) During Pain Procedures</i> (Naileshni Singh, MD; Michael Jung, MD, MBA; Fatima Yusuf, BS; Almas Khan; Tiffany Su, MD; Allison Glinka-Przybysz, MD; Sandra Taylor, PhD; John Sun, MD). Chosen for moderated poster session.
Spring 2022	UCD Undergraduate research conference: <i>Using Virtual Reality (VR) Distraction in Patients Undergoing Interventional Pain Procedures</i> . Almas Khan, et al. Conference cancelled.
November 18-20, 2021	American Society of Regional Anesthesia and Pain Medicine Annual Meeting. San Francisco, CA <i>Virtual Reality and Augmented Reality in the Management of Chronic Pain: A Literature Review</i> . Rohit Nalamasu, D.O. M.S., Naileshni Singh, M.D., Michael Jung, M.D., M.B.A.
March 7-10, 2019	American Academy of Pain Medicine- winning poster and oral Denver, Colorado M. Shrestha, L. Jiang, N. Singh , S. Sheth, and A. Odor. <i>Virtual Reality (VR) Distraction for Anxiety and Pain Reduction during Trigger Point Injection Procedures (TPI)</i>
January 11-14 2019	North American Neuromodulation Society Las Vegas, NV Gwalani, J., Singh, N. , Sheth, S., Hoch, J., and Fishman, S. <i>Does the PHQ-9 predict success of peripheral nerve and spinal cord stimulation?</i>
April 26-29, 2018	American Academy of Pain Medicine Vancouver, Canada DeMesa, C., Singh, N. , Crumley, C., and Fishman, S. <i>Use of Multiple Mini Interviews in recruiting pain medicine trainees</i>
January 11-14, 2018	North American Neuromodulation Society-chosen for oral Las Vegas, NV Amir Ramezani, PhD; Naileshni Singh, MD (Presenter); Samir Sheth, MD; Indu Dornadula, MD; Laura Wander, PhD; Sylvia Malcore, PhD; Charles DeMesa, DO; Ravi Prasad, PhD; Robert McCarron, DO & Scott Stayner, MD PhD <i>Psychological Preparation for Neuromodulation: A systematic review</i>
January 19-22, 2017	North American Neuromodulation Society Last Vegas, NV Sheth S, Rejaei, D, Dharmasukrit C, Sweeney, J and Singh, N. <i>Evaluation of Objective Outcomes with the Use of an Activity Tracker During the Trial Period of Spinal Cord Stimulation.</i>
September 26-30, 2016	International Association for the Study of Pain Yokohama, Japan <i>Patient Interest, Use, and Barriers to Use of Complementary and Integrative Therapies for Pain Management at an Academic Tertiary Care Pain Clinic.</i>
April 8, 2015	Anesthesiology Dean's Symposium Sacramento, CA <i>Radiation Safety in Interventional Pain and Simulation based Education</i>
April 1, 2015	UCD School of Medicine Integrative Quality Symposium Sacramento, CA <i>The impact of fluoroscopic training on radiation use in interventional pain medicine.</i>
May 2014	Western Anesthesiology Resident Conference Los Angeles, CA <i>A Novel Approach to the treatment of Sacroiliac Joint Complete Pain: A Retrospective Review of Bipolar Radiofrequency Ablation Applied in a Palisade Pattern</i> (1 st place winner)
December 2014	North American Neuromodulation Society Las Vegas, NV <i>Case Report: The use of peripheral field stimulation for the treatment of axial pain in patients with an inaccessible epidural space</i>
October 2013	American Society of Anesthesiologists San Francisco, CA

Simulation-based education for training pain interventionalists in the management of emergency events

April 2013	American Academy of Pain Medicine	Fort Lauderdale, FL
	<i>Core Pain Management Competencies for Health Professional Students</i>	
March 2013	UCD School of Medicine Integrative Quality Symposium	Sacramento, CA
	<i>Simulation of Emergencies in an Interventional Pain Management Setting; improving patient safety through physician competency</i>	
December 2012	North American Neuromodulation Society	Las Vegas, NV
	<i>Case report: SCS for central neuropathic pain in a patient with a spinal cord injury</i>	
August 2012	International Association for the Study of Pain	Milan, Italy
	<i>Simulation for an Interventional Pain Management Setting: Emergencies</i>	

IRB APPROVED PROJECTS

1. **Singh, N.,** Jung, M., Almas, F., Khan, A., Sun, J, Taylor, S. Immersive Audiovisual Distraction with Virtual Reality (VR) to Reduce Anxiety and Sedation Requirements during Pain Procedures in the Interventional Pain Clinic. Summer 2020, Completed patient recruitment. Presented at 2022 ASRA meeting.
2. Yan, Charley (MS1), Singh, N., Pritzlaff, S., Fishman, S., and Chang, J. Correlation Between Epidural Space Depth Measured With Ultrasound and MRI Compared to Clinical Loss of Resistance When Performing Epidural Steroid Injection. IRB approved in Spring 2021 and currently recruiting patients. Funded by SOM Summer Fellowship.

ONGOING TEACHING and CME ACTIVITIES

1. Spring 2019-ongoing Pain Medicine Thread leader and co-IOR Pharmacology 400B
 - a. 3+ hours of online, lecture, and team-based learning coursework in Pharmacology 400B including midterm and final exam reviews, quiz and exam question writing, and participation in feedback focus group, with approximately 100+ students in the class
 - a. Pain Pathways (video recorded session)- Pharmacology 400B Summer 2019, 2020, 2021
 - b. Types of Pain (video recorded session)- Pharmacology 400B Summer 2020, 2021(re-recorded)
 - c. Prescription Opioid Crisis (video recorded session)- Pharmacology 400B Summer 2020, 2021 (re-recorded)
 - d. Neuropathic Pain (in person lecture and recorded)- Pharmacology 400B Summer 2019/2020/2021
 - e. Oral Opioid Medications (in person lecture and recorded)- Pharmacology 400B Summer 2019/2020/2021
 - f. Use of Opioids (team-based learning session live or live videoconference)- Pharmacology 400B Summer 2019/2020 (virtual)/2021(virtual)
 - g. Prescription Drug Abuse (team-based learning session and live videoconference)- Pharmacology 400B Summer 2019/2020 (virtual)/2021(virtual)
 - h. Facilitator for cases on Neuromuscular blockers and Sedatives- Pharmacology 400B Summer 2020
 - b. Editing of the following coursework for Doctoring 2: fibromyalgia
 - c. Facilitator for Public Health Course (MDS 415C) on the Prescription Opioids- Summer 2020, July 29, 2021
 - d. Pain Medicine for OB/GYN clerkship (video recorded session)- all OB/GYN rotating medical students
 - e. Beyond the Opioid Crisis, Behavioral approaches to pain management-Transition to Residency 2 videoconference on 4/17/20 (approximately 15 attendees), video conference 5/12/21 (approx. 15 attendees), in person 5/10/22 (approx. 20 attendees).
 - f. Intersession clerkship sessions:
 - a. Hip Pain and Trauma (with Jen Plant, Andres Sciolla/behavioral health thread, Mfonobong Essiet, Chinar Sanghvi, etc.) on 6/16/21 and planned for 6/13/23 (Plant, Sciolla, Shaikh, Sanghvi)
 - b. Cancer Pain and Palliation (with Grace Amadi/Stages of life thread) on 3/15/22
 - g. Molecular and Cellular Medicine course: *Congenital Insensitivity to Pain* TBL (with Pharmacology department Laura Borodinsky, Hana Anderson, David Copenhaver, Vladimir Yarov-Yarovoy, Jie Zheng, Igor Vorobyov, Martha O'Donnell, Luis Santana, Sameep Dhillon) on 10/1/21 (entire MS 1 class) and 10/31/22 (unable to attend but did review material)
 - h. MDS 474: Hematologic, Cardiovascular, Pulmonary, and Renal Systems 2022: Team based learning sessions on Stable Angina (Feb 4, 2022) and Chest Pain (Feb 6, 2023)

- i. Interprofessional Education with University of the Pacific Dental School- virtual TBL session on *Opioid and Antibiotic Stewardship* on 11/17/21 (authors: Naileshni Singh, Michele Brady, Chinar Sanghvi, Christopher Brophy, Wei-Chen Lin), 11/16/2022 (Singh, Plant, Brady, etc.)
 - j. Spinal Pain (asynchronous course) ANES 490 (started 2020): 2 week online MS 4 course, created with Chinar Sanghvi
 - k. UCD Health Clinic Preceptor Guide to Medical Students in the Longitudinal Clinical Experience (LCE): host a first-year medical student in my clinic to teach basics of history and physical exam taking (2022= Steven Garcia, 2023= Kaili Rachelle Barnes)
 - l. EnRGI 2022: 4+ hours of pre-recorded content: *Visceral pain pathways abdominal and pelvic, Chronic pelvic pain*, mentorship of Dr. Sanghvi in the following pre-recorded content: *Acute abdominal Pain, Chronic abdominal pain*
 - a. Team based learning session: Acute Abdominal pain- 10/12/22
 - b. Team based learning session: Chronic Pelvic pain- 11/7/22
 - c. Team based learning session: Acute Abdominal pain- 8/25/23
 - d. Team based learning session: Chronic Pelvic pain- 11/6/23
 - m. Brain and Behavior course 2023:
 - a. Pre-recorded lectures: Neuropathic medications, Types of pain, Oral Opioids, Pain disparities: Sex, race, gender, age, etc.
 - b. Peer teaching on neuropathic and opioids (2/10/2023)
 - n. Transition to Residency: MS4 course
 - a. See #e above
 - b. 2023, May 9th: *Alternatives to Opioids: Nonpharmacologic Approaches to Pain Management* (with Ravi prasad, Chinar Sanghvi)
 - c. 2023, May 11th: *Transitions of Care: Opioid and Adjuvant Pain Management in the Acute, Perioperative, Inpatient, and Outpatient Setting* (with Chinar Sanghvi)
2. 11/2018-ongoing Instructor of Records- Resident, Medical student (ANES 435-MS 3 TEACH, ANES 463, ANES 490-IOR role ended 2022), NP/PA student rotation (Div. of Pain Med.)
 - a. Create agenda, curriculum, and assignments for all aspects of the educational programming.
 - b. Oversee resident and student rotations and work with directors of those programs.
 - c. Offer monthly lectures for pain trainees. Evals: average 4-5 on a 5 point scale.
 - d. Mentorship of Chinar Sanghvi to take over Anesthesia resident rotation (April 2023)
 3. 2017-ongoing Mentor, Lecturer, Content Expert for Pain Train the Trainer (T3) Primary Care Fellowship (Div. of Pain Medicine)
 - a. Participate in twice yearly lectures/tele-video sessions and mentoring of year-long primary care fellows
 - b. Faculty lecturer at CME course for fellows
 4. 1/2016-ongoing Director of Education (Div. of Pain Medicine)
 - a. Create agenda, curriculum, and assignments for all aspects of the educational programming.
 - b. Oversee pain medicine fellows, resident, and student rotations and work with directors of those programs.
 - c. Offer monthly lectures for pain trainees.
 5. 2014-2018 Lecturer and Content Expert for ECHO (Pain-ECHO) (Div. of Pain Medicine)
 - a. Participate in twice yearly lectures/tele-video sessions for primary care clinics
 - b. Offer shadow experiences for clinicians
 6. 2013-ongoing Lead Instructor of Biannual interprofessional "Mock Codes" using simulation (Div. of Pain Med.)
 - a. Author critical patient care case scenarios using high fidelity simulation
 - b. Engage nursing staff, medical support staff, fellows, trainees, and faculty in simulation
 - c. Offer debrief of simulated activities.
 7. 10/2011-ongoing Lecturer Division of Pain Medicine
 - a. Offer ongoing lectures and proctoring for residents, fellows, medical students, nursing students, pharmacy students include: pain mechanisms, interventional pain medicine, simulation-based education with high and low fidelity, suture lab, complications, journal clubs, indications for injection therapies, neuropathic pain, cases in pain medicine, neuromodulation, acute pain, use of fluoroscopy, radiation safety, etc.
 - b. Undergo evaluation of teaching.

INVITED LECTURES/TEACHING

2/25/21	Biolaunch UCD Undergraduate course invited speaker
2/8/18	Overview of Chronic Pain and Management: Anesthesiology (medical student)
12/12/17	Neuropathic Pain: Internal Medicine (resident)

2/9/16	Overview of Chronic Pain and Management: Anesthesiology (medical student)
6/21/16	Interventional Pain Medicine: Neurology (resident)
5/3/16	Pain Mechanisms and Pathways: Anesthesiology (resident)
2/17/16	Overview of Chronic Pain and Management: Anesthesiology (medical student)
6/9/15	Pain Mechanisms and Pathways: Anesthesiology (resident)
4/8/15	Anesthesiology Dean's Symposium: <i>Simulation based competencies in managing pain emergencies</i>
2/11/15	Pain Mechanisms and Pathways: Anesthesiology (medical student)
2/3/15	Behavioral Interviewing: UCD Graduate Medical Education core program meeting
5/20/14	Pain Pathways and Neuropathic medications: Anesthesiology (resident)
5/1/14	Pain Pathways and Medications: Nursing/Physician Assistant program (NP-PA student)
5/20/14	Pain overview, anatomy and physiology; Anesthesiology (resident)
6/13	Pain anatomy; Anesthesiology (resident)

CME PROGRAMS:

1/20/22	Train the Trainer T3: <i>Complex Regional Pain Syndrome</i>	
10/3/21	Essentials of Primary Care Pain Management: <i>Neuropathic pain agents</i>	
4/22/21	Train the Trainer T3: <i>Neuromodulation</i>	
1/14/21	Train the Trainer T3: <i>Complex Regional Pain Syndrome</i>	
11/7/20	Essentials of Primary Care Pain Management: <i>Neuropathic pain agents</i>	
5/21/20	Train the Trainer T3: <i>Neuromodulation</i>	
12/19/19	Train the Trainer T3: <i>Complex Regional Pain Syndrome</i>	
10/20/19	ASA annual meeting: <i>SEE and ACE Live!</i>	Orlando, Florida
9/21/19	Essentials of Primary Care Pain Management: <i>Neuropathic pain cases</i>	
4/26/19	UCD Spine Conference: <i>Neuromodulation, Uses and Indications</i>	Sacramento, CA
12/20/18	Train the Trainer T3: <i>Complex Regional Pain Syndrome</i>	
12/11/18	Pain ECHO: <i>Neuromodulation</i>	
7/19/18	Train the Trainer T3: <i>Neuromodulation</i>	
5/15/18	Pain ECHO: <i>Neuropathic Pain</i>	
11/3/17	Western Association of Biofeedback and Neuroscience <i>Pain Medicine and Mental Health</i>	Costa Mesa, CA
9/16/17	Essentials of Primary Care Pain Management: <i>Neuropathic pain cases</i>	
9/16/17	Essential of Primary Care Pain Management Conference: <i>Neuropathic Pain</i>	
8/1/17	Pain ECHO, case presentation	
1/13-14/17	Essentials of Primary Care Psychiatry, Sacramento, CA: <i>Small Group Case Discussions, Chronic Pain and Mental Health</i>	
8/19-20/16	Essentials of Primary Care Psychiatry, Long Beach, CA: <i>Small Group Case Discussions, Chronic Pain and Mental Health</i>	
2/21/16	American Academy of Pain Medicine Annual Meeting, Palm Springs, CA: <i>How to Create Effective Simulation and Immersive Learning Experiences for Pain Medicine Education</i>	
6/2015	UCD video CME: <i>Neuropathic Pain</i>	
11/18/15	Anesthesiology Grand Rounds: <i>Ketamine for Depression</i>	
5/31/16	Complications in Pain Medicine: AAPM webinar (260 participants)	
9/3/14	UCD Pain Echo: <i>Overview of Pain and Pain Mechanisms</i>	
8/21/14	UCD: <i>Understanding and Treating Neuropathic Pain</i>	
3/11/14	UCD Pain ECHO: <i>Pain pathways</i>	
3/6/14	American Academy of Pain Medicine Annual Meeting, Phoenix, AZ: <i>Complications in Pain Medicine</i>	
1/26/12	Adventist Hospital Hanford, CA: <i>Perioperative pain management in the opioid tolerant patient.</i>	

HOSPITAL/SCHOOL OF MEDICINE/UNIVERSITY COMMITTEES

4/23-ongoing	Pain medicine faculty recruitment committee (Chair)	UCD Pain
4/22-ongoing	UCDMC Pain and Sedation Committee	UCDHS
6/20-ongoing	SOM Thread Leader Workgroup, Lead	
6/20-ongoing	SOM Curriculum Implementation Committee, Thread representative	
1/21-4/21	Pain Medicine Faculty Recruitment Committee (chair)	
2/2020-ongoing	Medical Staff Technology Committee	UCDHS
8/2018-ongoing	Merit and Promotions Committee	UCD Anesthesiology
4/2019-ongoing	Wellness Committee	UCD Anesthesiology
10/2018-5/2019	Neurology Faculty Recruitment Committee	UCD Neurology

8/2018-2019	Reviewer for <i>Anesthesia Toolkit</i>	
5/2018-2021	UC Opioid Curriculum Committee Workgroup	
<i>Report produced, 2019: Development of Pain, Addiction and Substance Abuse, Public Health Competencies (with Dr. Stephen Henry) AND Publication (PMID 33316051)</i>		
October 10, 2018- Meeting at UCOP with other UC systems regarding development of above competencies		
3/2018-2019	Pain Psychology Recruiting Committee Chair	UCD Pain Medicine
2-3/2018	Department of Neurology Recruiting Committee	UCD Neurology
2/2017	Pain Pharmacy Fellowship Recruiting Committee	UCD Pharmacy
1-2/2017	Neurology Faculty Recruitment Committee	UCD Neurology
6/2016-6/2021	Pain Medicine Program Evaluation Committee (chair)	UCD Anesthesia Department
2015-2023	Pain Medicine Clinical Competency Committee (chair, 2017-2019)	UCD Pain Medicine
2014-ongoing	UCD Division of Pain Medicine Recruitment Committee	
2014-ongoing	Anticoagulation Task Force Committee	UCD Pain Medicine
2013-2017	Data Safety Committee (Chair, PREEMPT study)	UCD Internal Medicine
January 2014- ongoing	Education Committee	UCD Anesthesia Department
January 2014- 2016	Compensation Committee	UCDMC
July 2012-2017, 2018-2023	Resident Competency Committee	UCD Anesthesia Department
5/2012-2016, 12/2017-2018	Undergraduate Scholarship Committee	UCD
June 2012-2020	Radiation Use Committee, Radioactive Drug Research Committee	UCD
July 2011-ongoing	Pain Fellowship Recruiting Committee	UCD Pain Medicine
June 2009-June 2010	Education Committee, resident member	UCD Anesthesia Department
June 2009-June 2010	Committee on Quality Improvement	UCD Anesthesia Department
April 2009-July 2010	Resident Delegate	CA Society of Anesthesiologists
March 2008-April 2009	Resident Alt. Delegate	CA Society of Anesthesiologists
October 2002-July 2004	Medical Student Representative	CA Medical Association
October 2004- July 2004	Medical Student Representative	Santa Clara Valley Medical Assoc.
November 2001- May 2002	Youth Takin' on Tobacco Program Intern	Vacaville, CA
January 2000-June 2004	Yolo County Hospice Volunteer	Davis, CA
September 1999-June 2001	Campus Judicial Board, Chair (2000-2001)	Davis, CA
September 1999-June 2001	Golden Key Honor Society, Vice President (2000-2001)	Davis, CA
September 1998-June 2001	Dean's Student Advisory Committee, Chair (2000-2001)	Davis, CA

PROFESSIONAL SOCIETY/NATIONAL COMMITTEE ASSIGNMENTS

2020	ABA Content Outline Advisory Task Force for Diversity, Equity and Inclusion/Healthcare Disparities-review content, and develop MOCA questions	
2021?-ongoing	California Society of Anesthesiologists Justice, Equity, Diversity, and Inclusion Committee (JEDI): which meets monthly to assess ways that we can reach students (including elementary and high school), trainees, and colleagues from a variety of backgrounds to encourage them in careers in anesthesiology. The goal is community outreach, mentorship of trainees, and highlighting of issues.	
11/13/17	Directory Committee	American Pain Society
2/2017-ongoing	Question writer for Pain MOCA 2.0	ABA
5/2016-ongoing	Question writer for <i>Summaries of Emerging Evidence (SEE)</i> CME Program	ASA
	Editor (10/2018-ongoing)	
3/11-ongoing	Enrollment in MOCA-Subspecialties for Pain Medicine	ABA
2014-ongoing	Ad Hoc reviewer for <i>Pain Medicine</i>	

PROFESSIONAL SOCIETIES

American Society of Pain and Neuroscience (ASPN), American Academy of Pain Medicine (AAPM), International Association for the Study of Pain (IASP), Society of Academic Anesthesiology Associations (SAAA), Association of Pain Program Directors (APPD), American Society of Anesthesiologists (ASA), California Society of Anesthesiologists (CSA), California Medical Association (CMA), American Medical Association (AMA)

ONLINE

- 1/22/23 in press for UpToDate: Interventional pain procedures
- 10/19/2019 contributor to "ASA Daily News" online article, *Earn patient safety credit hours and have fun doing it*, for the session "ACE and SEE Live!" At the ASA Annual Meeting

- Lowry, Fran. *Immersive Virtual Reality Eases Trigger-Point Injection Pain*, March 12, 2019 (<https://www.medscape.com/viewarticle/910237>)
- Singh, N. (2018). CP Basic Quiz Week 3. Anesthesia Education Toolbox: https://collectedmed.com/index.php/article/article/article_display/14/7003, Published 4/30/2018

COMMUNITY OUTREACH

- Featured for article in *Anesthesiology News*, Immersive Audiovisual Distraction with Virtual Reality to Reduce Anxiety and Sedation Requirements During Pain Procedure, October 2022.
- Health Professions Advising Board member, UC Davis College of Biological Sciences (Summer 2021-ongoing): case-based teaching session for undergrads interested in health care scheduled for April 28th, 2022
- Pain Executive Board presentation: *Virtual Reality for Pain Patients*, April 28th, 2022.
- Featured in UCD Anesthesiology Alumni Newsletter 2020 in Research and Clinical sections.
- March 1st, 2021: interviewed for article in *The Aggie*: Opioid Misuse Concerns Remain Amid Pandemic by Michelle Wong.
- January 2021, Pain Medicine Group featured in Sacramento Magazine
- Feb 7th, 2020 Davis Enterprise, featured in article by Caleb Hampton
 - *UCD med school adds opioid education to curriculum*
- 1/2020 Press release for UCDHS, featured in the article,
 - *School of Medicine adds opioid education to curriculum UC Davis takes pioneering role among UC medical campuses to address public health crisis.*
- 5/29/19 Food for Thought-Pain Medicine Health Sciences Development & Alumni Relations
 - *Cutting edge treatment for chronic pain*
- 2/28/18 *Puzzles of Pain Medicine* Sun Valley Community Center
- 3/2018 Contributor to *Soothing Pain...OUCH*. Martha Stewart Living Magazine

REFERENCES (Others available upon request)

David Copenhaver, MD, MPH
 Chief of Division of Pain Medicine
 Department of Anesthesiology and Pain Medicine
 University of California, Davis Medical Center
 Lawrence J. Ellison Ambulatory Care Center
 4860 Y Street
 Sacramento, CA 95817