

Curriculum Vitae  
**Daniel S. Chow, MD, MBA**

**PERSONAL INFORMATION**

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Business Address                      University of California, Irvine  
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Irvine, CA 92697

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Phone                                        714-497-5735

**CURRENT POSITIONS**

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Aug 2022 – Present                      *Vice Chair of Innovation and Entrepreneurship*  
Department of Radiological Sciences  
University of California, Irvine

Jul 2022 – Present                         *Director, Advanced Analytics and Artificial Intelligence (A3)*  
Institute for Precision Health (IPH)  
University of California, Irvine

Sept 2021 - Present                        Section Chief, Division of Neuroradiology  
Department of Radiological Sciences  
University of California, Irvine

Mar 2021 – Present                         *Major, O-4*  
United States Army Reserves  
7452 Medical Operational Readiness Unit (MORU)  
2400 AdmirTelal Baker Rd., San Diego, CA 92120

Jul 2018 – Present                         *Co-Director*  
Center for Artificial Intelligence in Diagnostic Medicine (CAIDM)  
University of California, Irvine

Dec 2016 – Present                         *Associate Professor-in-Residence*  
Department of Radiological Sciences  
University of California, Irvine

**JOINT APPOINTMENTS**

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2023 – Present                              *Associate Professor-in-Residence*  
Paul Merage School of Business  
University of California, Irvine

2022 – Present                              *Associate Professor-in-Residence*

Department of Pathology and Laboratory Medicine  
University of California, Irvine

2018 – Present                      *Associate Professor-in-Residence*  
Department of Neurology  
University of California, Irvine

## **POST-GRADUATE EDUCATION & PRIOR EMPLOYMENT**

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2019 – 2022                      *Co-Director*  
Precision Health through Artificial Intelligence (PHAI)  
University of California, Irvine

2016                                      *Clinical Instructor*  
Department of Radiology & Biomedical Imaging  
University of California, San Francisco

2015 – 2016                      *Fellow*  
Department of Radiology & Biomedical Imaging  
University of California, San Francisco

2011 – 2015                      *Resident, Holman Research Pathway*  
Department of Radiology  
Columbia University Medical Center  
New York, NY

2010 – 2011                      *Intern*  
Department of Surgery  
Harbor-UCLA Medical Center  
Torrance, CA

## **UNDERGRADUATE & GRADUATE EDUCATION**

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2019 – 2021                      **M.B.A.**  
Paul Merage School of Business  
Irvine, CA

2006 – 2010                      **M.D.**  
David Geffen School of Medicine  
Los Angeles, CA

2002 – 2006                      **B.S.:** Biomedical Sciences  
University of California, Riverside  
Riverside, CA  
*Regents Scholar*

## **BOARD CERTIFICATIONS AND MEDICAL LICENSURE**

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2016 – Present American Board of Radiology  
2015 – Present California Medical License (A 134946)

## **SERVICE TO DEPARTMENT & PROFESSIONAL ORGANIZATIONS**

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2023 Reviewer, National Institutes of Health  
Clinical Translation Imaging Science (CTIS) Study Section

2022 *Committee Member*, DISCOVER committee, UCI

2021 *Reviewer*, Austria Science Fund. The AWF's role is similar to that of the National Science Foundation (NSF) in the US.

2021 *EMBA Panelist*, UCI MBA for Executives

2020 – Present *Medical/Scientific Reviewer*, Clinical Research Acceleration and Facilitation Team (CRAFT) Committee, University of California, Irvine

2020 *Committee Member*, COVID-19 Research Grant reviewer, Institute for Clinical and Translational Science (ICTS), University of California Irvine (April 2020)

2020 *CTSA External Reviewer*, CEREC (April 2020)

2020 *Reviewer*, UCI COVID-19 Research Grant committee, C-DOTT (COVID related Disease Oriented Translational Teams) April 2020

2020 *Member*, UC Stroke Consortium Workgroup. UCI Research Collaborations, Clinical Trials, Common IRB, Data

2019 *Early Career Reviewer*, National Institutes of Health Basic Cancer Work Force Development Special Emphasis review panel (ZRG1 OBT-B 55)

2018 – Present *Early Career Reviewer (ECR)*, National Institutes of Health

2018 – Present *Editorial Board*, American Journal of Neuroradiology

2018 – Present *Reviewer*, Radiology

2018 – Present *Reviewer*, Neuroradiology

2018 – Present *Reviewer*, Nature Methods

2018 – Present *Reviewer*, Journal of Neuro-Oncology

2018	<i>Moderator, American Society of Neuroradiology Value of Imaging Genomics for Brain Tumors (June 7<sup>th</sup>, 2018)</i>
2018	<i>Moderator, American Society of Functional Neuroradiology Functional Spine Imaging. (Anticipated October 17<sup>th</sup>, 2018)</i>
2017	<i>Moderator, American Society of Functional Neuroradiology Advanced Neuroimaging for Glioma, October 9<sup>th</sup>, 2017</i>
2017	<i>Moderator, American Society of Functional Neuroradiology Advances in Imaging: Neuropsychiatry and Cognition, October 9<sup>th</sup>, 2017</i>
2017 – Present	<i>Reviewer, Journal of Clinical Neuroscience</i>
2017 – Present	Post Graduate Clinical Programs Committee University of California, Irvine
2017 – 2019	<i>Associate Program Director of Neuroradiology Fellowship University of California, Irvine</i>
2017 – Present	<i>Committee Member, Research &amp; Education Public Relations Radiology Society of North America</i>
2015	Radiology Research Alliance Task Force for Radiology Research Strategies: <i>Big Data in Radiology</i> . Association of University Radiologists
2014 – Present	<i>Reviewer, American Journal of Neuroradiology</i>

## **AWARDS & HONORS**

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2022 - 2023	<b>Orange Coast Magazine.</b> Recognition as “Physician of Excellence” by the (OCMA) Orange County Medical Association.
2021	<b>2021 Greater Irvine Chamber “40 Under 40 Honorees”</b> Forty outstanding Orange County next-generation professionals were recognized during the Greater Irvine Chamber’s 40 Under 40 awards for their demonstrated leadership and accomplishments advancing their industries and the Orange County community.
2020	RSNA Editor’s Recognition Award, Reviewer Recognition
2019	<b>Lucien Levy Best Research Article Award for 2018.</b> “Deep- Learning Convolutional Neural Networks Accurately Classify Genetic Mutations in Gliomas.” <i>American Journal of Neuroradiology</i> . (Senior Author).

- 2018 **Dyke Award.** Hybrid 3D/2D Convolutional Neural Network for Hemorrhage Detection on Head CT. American Society of Neuroradiology (Senior Author).
- 2018 **Big Ideas Winner. Precision Health driven through Artificial Intelligence (PHD-AI).** Call for proposals by UCI's Chancellor's office for "Ideas that are multidisciplinary, ambitious and far-reaching so that, with the proper resources, they could have a transformational impact at UCI and beyond." Selected proposal was received following several rounds of internal review, including input from the UCI Foundation board of trustees, emeriti and retirees, faculty, staff, students and alumni. (Shared with Drs. Peter Chang, Suzanne Sandmeyer, and Leslie Thompson).
- 2017 *Certificate of Merit.* Drugs, Alcohol, Heavy Metal, and More: Complications in the Spine. Radiological Society of North America Scientific Assembly and Annual Meeting. Chicago, IL.
- 2017 **Teacher of the Year.** Department of Radiology, University of California, Irvine.
- 2017 *AIMed Abstract Winner, Medical Imaging & Biomedical Diagnostics Category.* Deep Learning for Highly Accurate Detection and Quantification of Intraparenchymal Hemorrhage On Head CT (Senior Author).
- 2016 *Case of the Day.* American Society of Neuroradiology Annual Meeting.
- 2016 **Editorial Fellow.** American Journal of Neuroradiology
- 2015 **Holman Research Pathway Graduate,** American Board of Radiology.
- 2014 *Certificate of Merit.* Law and Order - Neuroimaging: Understanding and minimizing risk for the neuroradiologist. Radiological Society of North America Scientific Assembly and Annual Meeting. Chicago, IL
- 2014 **Resident in Radiology President's Award.** American Roentgen Ray Society.
- 2013 *Certificate of Merit.* Assessing Glioblastoma Response to Therapy: A Diverse and Rapidly Evolving Field. Radiological Society of North America Scientific Assembly and Annual Meeting. Chicago, IL
- 2013 *Roentgen Resident / Fellow Research Award.* Radiological Society of North America

2012	<i>Certificate of Merit.</i> Window into the Posterior Fossa: An Interactive Review of Fetal Magnetic Resonance Imaging Techniques, Anatomy, and Posterior Fossa and Cerebellar Abnormalities. Radiological Society of North America Scientific Assembly and Annual Meeting. Chicago, IL
2009	<i>Certificate of Merit.</i> Unclassifiable and rare renal cell carcinoma subtypes: A dilemma for diagnosis. Radiological Society of North America Scientific Assembly and Annual Meeting. Chicago, IL

## **FUNDING & RESEARCH GRANTS**

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- 1. BAYER HEALTHCARE PHARMACEUTICALS INC. (\$315,566)**  
September 2023 – September 2026  
PI: Daniel Chow  
CCR-22-93: A multicenter, randomized, prospective double-blind, cross-over Phase 3 study to evaluate the efficacy and safety of 0.04 mmol Gd/kg body weight of gadoquatrane for MRI in adults with known or suspected pathology of the central nervous system (CNS), compared to 0.1 mmol Gd/kg approved macrocyclic gadolinium-based contrast agents (GBCAs)
- 2. BAYER HEALTHCARE PHARMACEUTICALS INC. (\$237,526)**  
September 2023 – September 2026  
PI: Daniel Chow  
CCR-22-104: A multicenter, randomized, prospective double-blind, cross-over Phase 3 study to evaluate the efficacy and safety of 0.04 mmol Gd/kg body weight of gadoquatrane for MRI in adults with known or suspected pathology of any body region (except CNS), compared to 0.1 mmol Gd/kg approved macrocyclic gadolinium-based contrast agents (GBCAs)
- 3. California Institute for Regenerative Medicine (\$2,000,000)**  
December 2023 – November 2025  
PI: Aileen Anderson  
INFR5-14574: The UCI GMP Cell and Gene Therapy Manufacturing Facility  
Role: Key Personnel. Note, this award allows for one PI and Key Personnel, who are expected to contribute to the scientific development or execution of the project in a substantive and measurable way.
- 4. California Institute for Regenerative Medicine (\$8,000,000)**  
February 2023 – January 2028  
PI: Daniela Bota  
INFR4-13952: A hub and spoke community model to equitably deliver regenerative medicine therapies to diverse populations across four California counties  
Role: Key Personnel. Note, this award allows for one PI and Key Personnel, who are expected to contribute to the scientific development or execution of the project in a substantive and measurable way.
- 5. National Institutes of Health (\$275,000)**  
August 2022 – July 2024  
PI: Peter Chang

Mechanisms of Brain Hemorrhage in Chronic Kidney Disease  
Role: Co-I

- 6. Kenneth T. & Eileen L. Norris Foundation (\$100,000)**  
August 2022 – October 2023  
PI: Peter Chang  
Stroke Care Training and AI  
Role: Co-I

## **COMPLETED FUNDING & RESEARCH GRANTS**

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- 1. Canon Medical Systems USA, Inc. (\$164,317)**  
August 2021 – August 2023  
PI: Jennifer Soun  
Comparison of Artificial Intelligence Based Large-Vessel Occlusion Solutions  
Role: Co-PI / Mentor
- 2. RSNA Research Scholar Grant (\$152,000)**  
July 2021 – June 2023  
PI: Jennifer Soun  
Evaluation of the Implementation of an AI Tool for Large Vessel Occlusion: Impact on Radiologists' Workflow and Patient Outcomes  
Role: Co-I / Mentor
- 3. RSNA Seed Grant (\$40,000)**  
July 2021 – June 2023  
PI: Edward Kuoy  
Measuring Operational and Clinical Impact of Point-of-care Portable MRI for ER and ICU Patients  
Role: Co-PI / Mentor
- 4. DH Diagnostics LLC, a Danaher company (\$149,997)**  
December 2021 – April 2022  
PI: Alpesh Amin  
Role of Immune Signatures in VTE Risk Stratification & Prophylactic Anticoagulant Prescription Guidance in Medical Post-Hospital Discharges  
Phases 1 & 2  
Role: Co-PI
- 5. MITRE Corporation (\$1,377,081)**  
October 2021 – May 2022  
PI: Alpesh Amin  
MITRE Project 21-02 (UCI) – Real World Evidence (RWE) to Accelerate COVID-19 Therapeutics Effort  
Role: Co-PI
- 6. UCI COVID-19 Basic, Translational and Clinical Research Funding (\$40,000)**  
July 2020 – June 2021  
Role: Contact PI  
Forecasting hospital and critical care needs for COVID-19 hospitalizations

- 7. UCI COVID-19 Basic, Translational and Clinical Research Funding (\$60,000)**  
April 2020 – May 2021  
Role: Contact PI  
Development, Validation, and Deployment of a COVID-19 Vulnerability Scoring System (VSS) with an Explainable Artificial Intelligence Approach
- 8. UCI Academic Initiative Proposal Fund (\$450,000)**  
September 2019 – September 2022  
PI: Leslie Thompson  
Applied Digital Health: Integration of Multidisciplinary Datasets and Artificial Intelligence for Precision Medicine  
Role: Co-PI
- 9. Radiological Society of North America Research Scholar Grant (\$152,000)**  
July 2019 – June 2021  
PI: Peter Chang  
Leveraging Deep Learning for Stroke Imaging Triage  
Role: Co-I
- 10. Radiological Society of North America Medical Student Grant (\$3,000)**  
July 2019 – June 2020  
PI: Michelle Bardis  
Prostate Cancer Detection, Quantification, and Characterization with Artificial Intelligence  
Role: Mentor
- 11. American Cancer Society Pilot Project Grant (\$45,000)**  
February 2019 – January 2020  
PI: Daniel Chow  
Deep learning classification of glioblastoma genetic heterogeneity and survivorship
- 12. Avicenna Scientist Award (\$9,171)**  
February 2019 – February 2020  
PI: Daniel Chow  
Deep learning approaches for intracerebral hemorrhages are generalizable and improves outcomes
- 13. Fatima Foundation (\$50,000)**  
October 2018 – September 2019  
PI: Suzanne Sandmeyer  
Cells to Systems Technologies for understanding the Brain in health and Disease  
Role: Co-PI
- 14. UCI Academic Initiative Planning Fund (\$25,000)**  
July 2018 – July 2019  
PI: Leslie Thompson  
Digital Medicine Initiative: Integration of Multidisciplinary Datasets and Artificial Intelligence for Precision Medicine  
Role: Co-PI



**15. Canon Medical Systems USA (\$86,944)**

January 2018 – January 2020

PI: Daniel Chow

Machine learning identification and delineation of intraparenchymal hematoma

**16. Canon Medical Systems USA (\$86,944)**

January 2018 – March 2021

PI: Daniel Chow

Machine learning classification of glioblastoma genetic heterogeneity

**17. UCI Radiological Sciences Seed Grant (\$25,000)**

April 2017 – April 2018

PI: Daniel Chow

A Multi-Parametric Model for Distinguishing Progression from Pseudoprogession in Glioblastoma

**18. Radiological Society of North America Research Resident Grant (\$30,000)**

July 2014 - December 2016

PI: Jennifer Soun

Quantitative T1rho mapping in multiple sclerosis: Development of a potential novel biomarker for disease prognostication and management

Role: Co-Mentor

**19. Radiological Society of North America Research Resident Grant (\$30,000)**

July 2013 – December 2015

PI: Daniel Chow

Evaluation of optical imaging during an acute stroke

**PEER-REVIEWED PUBLICATIONS**

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86. Ambrose N, Amin A, Anderson B, Bertagnolli M, Campion F, **Chow D**, Danan R, D'Arinzo L, Drews A, Erlandson K, Fitzgerald K, Gaspar F, Gong C, Hanna G, Hawley H, Jones S, Lopansri B, Mullen T, Musser J, O'Horo J, Piantadosi S, Pritt B, Razonable R, Rele S, Roberts S, Sandmeyer S, Stein D, Te J, Vahidy F, Webb B, Welch N, Wood A, Ytrri J. The Influence of Social Determinants on Receiving Outpatient Treatment with Monoclonal Antibodies, Disease Risk, and Effectiveness for COVID-19. *J Gen Intern Med* . 2023 Sep 15. (**PMID**: 37715096)
85. Awasthia A, Minin VM, Huang J, **Chow D**, Xu J. Fitting a stochastic model of intensive care occupancy to noisy hospitalization time series during the COVID-19 pandemic. *Stat Med* . 2023 Sep 14. doi: 10.1002/sim.9907. (**PMID**: 37705508)
84. Soun JE, Zolyan A, McLouth J, Elstrott S, Nagamine M, Liang C, Dehkordi-Vakil FH, Chu E, Florioli D, Kuoy E, Joseph J, Abi-Jaoudeh N, Chang P, Yu W, Chow D. Impact of an Automated Large Vessel Occlusion Tool on Clinical Workflow and Patient Outcomes. *Front Neurol*. 2023. May 2023. Volume 14 - 2023 | doi: 10.3389/fneur.2023.1179250 (**PMID**: 37305764)
83. Zhu Z, Vanderschelden B, Lee SJ, Blackwill H, Shafie M, Soun JE, **Chow D**, Chang P, Stadling D, Qiang T, Yu W. Methamphetamine use increases the risk of cerebral

- small vessel disease in young patients with acute ischemic stroke. *Sci Rep* . 2023 May 25;13(1):8494. doi: 10.1038/s41598-023-35788-z. (PMID: 37231082)
82. Grenier PA, Ayobi A, Quenet S, Tass M, Marx M, **Chow DS**, Weinberg BD, Chang PD, Chaibi Y. Deep Learning-Based Algorithm for Automatic Detection of Pulmonary Embolism in Chest CT Angiograms. *Diagnostics (Basel)*. 2023 Apr 3;13(7):1324. doi: 10.3390/diagnostics13071324 (PMID: 37046542)
81. Ambrose N, Amin A, Anderson B, Barrera-Oro J, Bertagnolli M, Campion F, **Chow D**, Danan R, D'Arinzo L, Drews A, Erlandson K, Fitzgerald K, Garcia MI, Gaspar FW, Gong C, Hanna G, Jones S, Lopansri B, Musser J, O'Horo J, Piantadosi S, Pritt B, Razonable R, Roberts S, Sandmeyer S, Stein D, Vahidy F, Webb B, Yttri J. Neutralizing Monoclonal Antibody Use and COVID-19 Infection Outcomes. *JAMA Netw Open* . 2023 Apr 3;6(4):e239694. doi: 10.1001/jamanetworkopen.2023.9694. (PMID: 37093599)
80. Bhaumik D, Baumik SS, Thaker AA, Timpone VM, Bills CB, Patten L, Pattee J, **Chow D**, Sugrue LP, Callen AL. Ordering Characteristics Predictive of Noncontrast CT Head Positivity in the Emergency Department. *Acad Radiol* . 2023 Mar;30(3):492-498. doi: 10.1016/j.acra.2022.05.001. Epub 2022 May 30. (PMID: 35654657)
79. Rao S, Glavis-Bloom J, Kakish D, Tran-Harding K, **Chow DS**, Nguyentat M, Yeates EO, Nahmias J, Houshyar R. Impact of easing COVID-19 safety measures on trauma computed tomography imaging volumes. *Emerg Radiol*. 2023 Feb;30(1):27-32. doi: 10.1007/s10140-022-02096-4. Epub 2022 Oct 29. PMID: 36307571; PMCID: PMC9616698.
78. Schlossman J, Ro D, Salehi S, **Chow D**, Yu W, Chang PD, Soun JE. Head-to-head comparison of commercial artificial intelligence solutions for detection of large vessel occlusion at a comprehensive stroke center. *Front Neurol*. 2022 Oct 10;13:1026609. doi: 10.3389/fneur.2022.1026609. PMID: 36299266; PMCID: PMC9588973.
77. Kuoy E, Glavis-Bloom J, Hovis G, Yep B, Biswas A, Masudathaya L, Morricks L, Limfueco J, Soun J, Chang P, Chu E, Akbari Y, Yaghmai V, Fox J, Yu W, **Chow D**. Point-of-Care Brain MRI: Preliminary Results from a Single-Center, Retrospective Study. *Radiology* . 2022 Dec;305(3):666-671. doi: 10.1148/radiol.211721. Epub 2022 Aug 2. (PMID: 35916678)
76. Yu HJ, Wadi L, Say I, Paganini-Hill A, **Chow D**, Jafari AH, Farhan SD, Del Sol SR, Mobayed O, Alvarez A, Hasso A, Li SS, Do H, Berkeley D, Lee YP, Su LM, Rosen C, Fisher M. Magnetic Resonance Imaging Findings in High School Football Players: Brain and Cervical Spine. *Neurotrauma Rep*. 2022 Mar 15;3(1):129-138. doi: 10.1089/neur.2021.0026. PMID: 35403100; PMCID: PMC8985528.
75. **Chow DS**, Desai R, Soundara M, Gohil S, Chang PD, Amin A. Successful COVID-19 Surge Management With Monoclonal Antibody Infusion in Emergency Department Patients. *Journal of Clinical Outcomes Management*. 2022 January;29(1):32-38. doi:10.12788/jcom.0078
74. Ramussen JM, Graham AM, Gyllenhammer L, Entringer S, **Chow DS**, O'Connor TG, Fair DA, Wadhwa P, Buss C. Neuroanatomical Correlates Underlying the Association

- Between Maternal Interleukin 6 Concentration During Pregnancy and Offspring Fluid Reasoning Performance in Early Childhood. *Biol Psychiatry Cogn Neurosci Neuroimaging* . 2022 Jan;7(1):24-33 (**PMID**: 33766778).
73. Zhao HT, Touhy MC, **Chow D**, Kozberg MG, Kim SH, Shaik MA, Hillman E. Neurovascular dynamics of repeated cortical spreading depolarizations after acute brain injury. *Cell Rep* . 2021 Oct 5;37(1):109794. (**PMID**: 34610299)
  72. Hovis G, Langdorf M, Dang E, **Chow D**. MRI at the Bedside: A Case Report Comparing Fixed and Portable Magnetic Resonance Imaging for Suspected Stroke. *Cureus*. 2021 Aug 5;13(8):e16904. doi: 10.7759/cureus.16904. **PMID**: 34513477; PMCID: PMC8412058.
  71. Wu PB, Chow DS, Petridis PD, Sisti MB, Bruce JN, Canoll PD, Grinband J. Asynchrony in Peritumoral Resting-State Blood Oxygen Level-Dependent fMRI Predicts Meningioma Grade and Invasion. *AJNR Am J Neuroradiol*. 2021 Jul;42(7):1293-1298. Epub 2021 May 13. (**PMID**: 33985949)
  70. Lyerly MJ, **Chow D**. Neuroimaging Considerations in Patients with Chronic Kidney Disease. *J Stroke Cerebrovasc Dis*. 2021 Sep;30(9):105930. doi: 10.1016/j.jstrokecerebrovasdis.2021.105930. Epub 2021 Jun 24. **PMID**: 34176719.
  69. Bardis M, Houshyar R, Chantaduly C, Tran-Harding K, Ushinsky A, Chahine C, Rupasinghe M, **Chow D**, Chang P. Segmentation of the Prostate Transition Zone and Peripheral Zone on MR Images with Deep Learning. *Radiol Imaging Cancer*. 2021 May;3(3):e200024. doi: 10.1148/rycan.2021200024. **PMID**: 33929265.
  68. McLouth J, Elstrott S, Chaibi Y, Quenet S, Chang PD, **Chow DS**, Soun JE. Validation of a Deep Learning Tool in the Detection of Intracranial Hemorrhage and Large Vessel Occlusion. *Front Neurol*. 2021 Apr 29;12:656112. (**PMID**: 33995252)
  67. Houshyar R, Glavis-Bloom J, Bui TL, Chahine C, Bardis MD, Ushinsky A, Liu H, Bhattar P, Lebby E, Fujimoto D, Grant W, Tran-Harding K, Landman J, **Chow DS**, Chang PD. Outcomes of Artificial Intelligence Volumetric Assessment of Kidneys and Renal Tumors for Preoperative Assessment of Nephron Sparing Interventions. *J Endourol*. 2021 Apr 13. Epub ahead of print. (**PMID**: 33847156)
  66. Lewis SA, Sureshchandra S, Zulu MZ, Doratt B, Pinski A, Curtis M, Jankeel A, Ibraim I, Rhoades N, Jiang X, Tifrea D, Zaldivar F, Shen W, Edwards R, **Chow DS**, Cooper D, Amin A, Messaoudi I. Longitudinal analyses reveal age-specific immune correlates of COVID-19 severity. *medRxiv*. Pre-print 2021 Jan 30.
  65. Chow D, Glavis-Bloom J, Soun J, Weinberg B, Loveless TB, Xie X, Mutasa S, Monuki A Park J, Bota D, Wu J, Thompson L, Boden-Albala B, Khan s, Amin A, Chang P. (2020 Dec) Development and external validation of a prognostic tool for COVID-19 critical disease. *PLOS ONE* 15(12): e0242953. <https://doi.org/10.1371/journal.pone.0242953>
  64. Chang PD, **Chow DS**, Alber A, Lin YK, Youn YA. Predictive Values of Location and Volumetric MRI Injury Patterns for Neurodevelopmental Outcomes in Hypoxic-

Ischemic Encephalopathy Neonates. *Brain Sci.* 2020 Dec 16;10(12):991. doi: 10.3390/brainsci10120991. **PMID:** 33339156; **PMCID:** PMC7765589.

63. Zhang Y, Chan S, Park VY, Chang KT, Mehta S, Kim MJ, Combs FJ, Chang P, **Chow D**, Parajuli R, Mehta RS, Lin CY, Chien SH, Chen JH, Su MY. Automatic Detection and Segmentation of Breast Cancer on MRI Using Mask R-CNN Trained on Non-Fat-Sat Images and Tested on Fat-Sat Images. *Acad Radiol.* 2020 Dec 11:S1076-6332(20)30676-0. doi: 10.1016/j.acra.2020.12.001. Epub ahead of print. **PMID:** 33317911.
62. Soun JE, **Chow DS**, Nagamine M, Takhtawala RS, Filippi CG, Yu W, Chang PD. Artificial Intelligence and Acute Stroke Imaging. *AJNR Am J Neuroradiol.* 2020 Nov 26. doi: 10.3174/ajnr.A6883. Epub 2020 Nov 26. **PMID:** 33243898; **PMCID:** PMC7814792.
61. Ushinsky A, Bardis M, Glavis-Bloom J, Uchio E, Chantaduly C, Nguyentat M, **Chow D**, Chang PD, Houshyar R. A 3D-2D Hybrid U-Net Convolutional Neural Network Approach to Prostate Organ Segmentation of Multiparametric MRI. *AJR Am J Roentgenol.* 2021 Jan;216(1):111-116. Epub 2020 Nov 10. (**PMID:** 32812797)
60. Meltzer CC, Wiggins RH 3rd, Mossa-Basha M, Palasis S, Russell E, Mikulis D, Rhyner P, Anderson J, Peterson RB, Smirniotopoulos J, Barkovich AJ, Zimmerman RD, Filippi CG, Rowley HA, Koontz NA, Jay AK, Nickerson J, Hamilton B, **Chow D**, Whitlow CT. Misleading Public Statements About COVID-19. *J Am Coll Radiol.* 2021 Jan;18(1 Pt A):6-7. doi: 10.1016/j.jacr.2020.10.012. Epub 2020 Oct 24. **PMID:** 33129769; **PMCID:** PMC7585358.
59. Lewis SA, Sureshchandra S, Zulu MZ, Doratt B, Jankeel A, Ibraim IZ, Pinski A, Rhoades NS, Curtis M, Jiang X, Tifrea D, Zaldivar F, Shen W, Edwards RA, **Chow D**, Cooper D, Amin A, Messaoudi I. Differential dynamics of peripheral immune responses to acute SARS CoV-2 infection in older adults. *Nature Aging.* 2021 Nov;1(11):1038-1052. doi: 10.1038/s43587-021-00127-2. Epub 2021 Oct 28. **PMID:** 37118336
58. Zhang Y, Chen JH, Lin Y, Chan S, Zhou J, **Chow D**, Chang P, Kwong T, Yeh DC, Wang X, Parajuli R, Mehta RS, Wang M, Su MY. Prediction of breast cancer molecular subtypes on DCE-MRI using convolutional neural network with transfer learning between two centers. *Eur Radiol.* 2020 Oct 1. doi: 10.1007/s00330-020-07274-x. Epub ahead of print. **PMID:** 33001309.
57. Bardis M, Houshyar R, Chantaduly C, Ushinsky A, Glavis-Bloom J, Shaver M, **Chow D**, Uchio E, Chang P. Deep Learning with Limited Data: Organ Segmentation Performance by U-Net. *Electronics.* 2020; 9(8):1199.
56. **Chow DS**, Khatri D, Chang PD, Zlochower A, Boockvar JA, Filippi CG. Updates on Deep Learning and Glioma: Use of Convolutional Neural Networks to Image Glioma Heterogeneity. *Neuroimaging Clin N Am.* 2020 Nov;30(4):493-503. doi: 10.1016/j.nic.2020.07.002. Epub 2020 Sep 18. **PMID:** 33038999.
55. Ushinsky A, Bardis M, Glavis-Bloom J, Uchio E, Chantaduly C, Nguyentat M, **Chow D**, Chang P, Houshyar R. A 3D/2D Hybrid U-Net CNN approach to prostate organ

- segmentation of mpMRI. *AJR Am J Roentgenol*. 2020 August 19. Published ahead of print. (PMID: 32812797)
54. Nagamine M, **Chow DS**, Chang PD, Boden-Albala B, Yu W, Soun JE. Impact of COVID-19 on Acute Stroke Presentation at a Comprehensive Stroke Center. *Front Neurol* . 2020 Aug 14;11:850. (PMID: 32922355)
  53. Bardis MD, Houshyar R, Chang PD, Ushinsky A, Glavis-Bloom J, Chahine C, Bui T-L, Rupasinghe M, Filippi CG, **Chow DS**. Applications of Artificial Intelligence to Prostate Multiparametric MRI (mpMRI): Current and Emerging Trends. *Cancers* 2020. May: 12(5,) 1204. (PMID: 32403240)
  52. **Chow D**, Soun J, Glavis-Bloom J, Weinberg B, Chang P, Mutasa S, Monuki E, Park J, Xie X, Bota D, Wu J, Thompson L, Amin A, Khan S, Bernadette Boden-Albala. The disproportionate rise in COVID-19 cases among Hispanic/Latinx in disadvantaged communities of Orange County, California: A socioeconomic case-series. medRxiv. Pre-print 2020 May 07.
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## BOOK CHAPTERS

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5. Ginat DT & **Chow DS**. Section 3: Head & Neck. Chapter 14 Nose and Paranasal Sinuses. *Neuroradiology: A Core Review Wolters Kuwer | Lippincott Williams & Wilkins* (January 31, 2018). ISBN-10: 1496372506
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1. **Chow DS** & Lignelli A. Section III. Diagnostic Tests, Chapter 20: Computed Tomography. Merrit's Neurology 13<sup>th</sup> Edition (September 25, 2015). ISBN-10: 145119336X

## ORAL PRESENTATIONS

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35. Bardis M, Ushinsky A, Chantaduly C, Glavis-Bloom J, **Chow D**, Chang P, Houshyar R (**2021**). Renal Cell Carcinoma: Automatic Segmentation and Risk Stratification with Artificial Intelligence. Oral Presentation. *SIO Annual Scientific Meeting 2021, Virtual Meeting*. Runner up award for AI Hackathon.
34. Le J, **Chow D**, Chang P, Thompson M, Grinband J, Kuoy E, Weinberg B, Homo R, Chen J, Abcede H, Shafie M, Surgue L, Filippi C, Su MY, Yu W, Hess C (**2019**). Hybrid 3S/2D Convolutional Neural Network for Subarachnoid Hemorrhage Evaluation on Head CT. *International Conference on SubArachnoid Hemorrhage*. Amsterdam, Netherlands.
33. Khy M, Pao J, Helmy M, **Chow D (2018)**. Integrative Neuroradiology Medical Physics Curriculum Enhances Resident Education. *American Society of Neuroradiology 2018 Annual Meeting*. Vancouver, Canada.
32. Chang P, Kuoy E, Daun M, Pao J, **Chow D (2018)**. Deep-Learning Quantification of Parenchymal Hemorrhage Volume Correlates With Patient Clinical Outcome. *American Society of Neuroradiology 2018 Annual Meeting*. Vancouver, Canada.
31. Kuoy E, Homo RL, Abcede HG, Shafie SM, Yu W, Floriolli D, **Chow D (2017)**. Utility of Serial and Ancillary Neuroimaging in Assessment of Suspected Hypertensive Hemorrhage. *Radiology Society of North America 2017 Annual Meeting*.
30. **Chow D**, Chen Y, Weinberg B, Sugrue L. (**2017**). Overuse of Repeat Noncontrast Head Computed Tomography. *American Society of Neuroradiology 2017 Annual Meeting*. Long Beach CA.
29. Chang P, Khy M, **Chow D (2017)** Deep Learning for Highly Accurate Detection and Quantification of Intraparenchymal Hemorrhage On Head CT. AIMed: Artificial Intelligence in Medicine 2017 Annual Meeting. Laguna Niguel, CA. **Abstract Winner (Medical Imaging and Biomedical Diagnostics Category)**
28. *American Society of Neuroradiology 2017 Annual Meeting*. Long Beach CA.
27. Chang P, **Chow D**, Bota D, Poisson L, Filippi C, Jain R, (**2017**). Deep learning for survival predicting in IDH wild-type gliomas. Society of Neuro-Oncology 2017 Annual Meeting. San Francisco.
26. Chang P, Bota D, Filippi C, **Chow D (2017)**. Deep learning approaches to identify intra-tumoral heterogeneity of low and high grade gliomas. Society of Neuro-Oncology 2017 Annual Meeting. San Francisco.

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23. Chang P, **Chow D**, Yang P, Bowden SG, Malone H, Gill BJ, Samanamud J, Grinband J, Schwartz LH, Bruce JN, Canoll P, Lignelli A (2016). Voxel-level assessment of cellularity in recurrent glioblastoma: A multiparametric radiologic-histopathologic study. *American Society of Neuroradiology 2016 Annual Meeting*. Washington DC.
22. Chang P, **Chow D**, Esterman Y, Demopolous A, Pramanik B, Lee J, Schulder M, Boockvar JA, Filippi CG (2016). Quantification of heterogeneity in peritumoral edema in long-term glioblastoma survivors: Correlation with ADC and FLAIR histogram metrics. *American Society of Neuroradiology 2016 Annual Meeting*. Washington DC.
21. Chang P, **Chow D**, Filippi C, Cauley K, Lignelli A (2015). Fully Automated Quantitative Scoring of VASARI Glioma Imaging Features Demonstrates High Interobserver Agreement with Expert Neuroradiologists. *American Society of Neuroradiology 2015 Annual Meeting*, Chicago IL.
20. **Chow D**, Ung T, Soun J, Malone H, Samanamud J, Chang P, Cauley K, Bruce J, Canoll P, Filippi C, Lignelli A (2015). Apparent Diffusion Coefficient Analysis of Glioblastoma Infiltrative Margins as a Quantitative Metric for Tumor Cellularity. *American Society of Neuroradiology 2015 Annual Meeting*, Chicago IL.
19. Chang P, **Chow DS**, Ung T, Soun J, Filippi CG, Lignelli A, Canoll P, Schwartz LH. A Multiparametric Voxel- Level Model for Prediction of Cellularity in Glioblastoma (2015). *Radiological Society of North America 2015*. Chicago, IL.
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17. Soun JE, **Chow DS**, Hao F, Guo X, Zhao B, Filippi CG (2014). Comparison of Qualitative Assessment Versus Semi-automated, Computer-assisted Quantitative Neuroimaging Feature Analysis of Glioblastomas in The Cancer Genome Atlas. *American Society of Neuroradiology 2014 Annual Meeting*. Montreal, QC.
16. Miloushev VZ, **Chow DS**, Lignelli A, Filippi CG (2014). Fractional Anisotropy as a Quantitative Imaging Biomarker for Prediction of Tumor Grade in Glioblastoma: A Meta-analysis Research Study. *American Society of Neuroradiology 2014 Annual Meeting*. Montreal, QC.
15. Furusawa-Stratton L, **Chow DS**, Kwak E, Lin D, Lanzman BA, Neira JA, Guo X, Canoll PD, Lignelli A, Cauley K, Zhao B, Schwartz LH, Filippi CG (2014). Semi-automated, Computer-assisted Quantification of Neuroimaging Characteristics of

Glioblastoma: Correlation with Histopathologic Subtypes. *American Society of Neuroradiology* 2014 Annual Meeting. Montreal, QC. (**Presenter**)

14. Filippi CG, El-ali A, Miloushev VZ, **Chow DS**, Choi J, Guo X, Zhao BZ. (2014) Semi-Automated Computer Segmentation of Core Infarct Volume and Percentage of Infarcted Brain Parenchyma in Pediatric Acute Stroke: Developing Quantitative Metrics for Outcome Prediction. (**Presenter**)
13. **Chow DS**, Horenstein C, Kozberg M, Lignelli A, Filippi CG, Grinband J. Glioblastoma: Evaluation of the nonenhancing peritumoral region using resting state BOLD MRI (2014). *American Society of Neuroradiology* 2014 Annual Meeting. Montreal, QC.
12. **Chow DS**, Ha R, Filippi CG (2014). Author Inflation: Does It Occur in the Field of Radiology? Review of Articles Published by Radiologists over the Past 20 Years. *Association of University Radiologists* 62nd Annual Meeting, Baltimore, MD.
11. Lanzman B, **Chow DS**, Lyall A, Miloushev V, Lassman A, Lignelli A (2013). Glioblastoma multiforme imaging assessment following resection: A tutorial on approaches and limitations. Abstract presented at the *Eastern Neuroradiology Society* 25th Annual Meeting. White Sulphur Springs, WV.
10. Lalwani AK, Peng R, **Chow DS**, De Seta D (2013). Differentiation of intracochlear tumor from inflammation using MRI. Abstract presented at *American Neurotology Society* Annual Meeting. Orlando, FL.
9. McClure TD, Tan N, **Chow DS**, Pantuck A, Sayre J, Raman SS (2013). 5-year Outcomes of Percutaneous Radiofrequency Ablation of 100 Renal Cell Carcinomas. Abstract presented at *Radiological Society of North America*. Chicago, IL.
8. **Chow DS**, Qi J, Guo X, Mathew N, Miloushev V, Filippi C, Zhao B, Lignelli A (2013). Semi-automated measurement of recurrent and residual disease in glioblastoma multiforme: a potential new objective metric. Abstract presented at the *American Society of Neuroradiology* 2013 Annual Meeting. San Diego, CA.
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6. **Chow DS**, Filippi C, Horenstein C, Grinband J (2013). Glioblastoma: Characterization of the Nonenhancing Peritumoral Region Using Resting State BOLD Functional Connectivity Maps. Abstract presented at the *American Society of Neuroradiology* 2013 Annual Meeting. San Diego, CA.
5. **Chow DS**, Horenstein CI, Jambawalikar S, DeLaPaz RL (2012). Characterization of brain tumors using quantitative susceptibility mapping (QSM): A Pilot Study. Abstract presented at the *American Society of Neuroradiology* 2012 Annual Meeting. New York, NY.
4. Horenstein CI, Jambawalikar S, **Chow DS**, Grinband J, DeLaPaz RL (2012). Characterization of brain tumors using resting state BOLD functional connectivity

maps: A pilot study. Abstract presented at the *American Society of Neuroradiology* 2012 Annual Meeting. New York, NY.

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1. **Chow D**, Itagaki M (2009). Interventional oncology research: slowing growth, limited focus, and inadequate funding. Abstract in *American Roentgen Ray Society* Annual Meeting. San Diego, CA: American Roentgen Ray Society; 194: A14-A17.

## **ABSTRACTS, POSTERS & EDUCATIONAL EXHIBITS**

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77. Cortes G, Tang CC, Zhao J, Gordon A, Hill R, Wright J, Shahrokni R, Li C, **Chow D**. Improving Patient Accessibility: An Analysis of Large Language Models in Generating Simplified Neuroradiology Reports. American Society of Neuroradiology 2024, Las Vegas, NV.
76. Johnson J, Roman K, Sternhagen J, Cortes G, Hill R, Na N, Odle B, Gordon A, Zhao J, Wright J, Joseph J, Tang CC, Head M, Marrey V, Li C, Fussell D, Chang P, **Chow D**. The Impact of Artificial Intelligence on Large Vessel Occlusion Detection Accuracy for Medical Students and Radiology Trainees. American Society of Neuroradiology 2024, Las Vegas, NV.
75. Roman K, Johnson J, Odle B, Sternhagen J, Tang CC, Cortes G, Hill R, Na N, Gordon A, Zhao J, Wright J, Head M, Marrey V, Joseph J, Fussell D, Li C, Chang P, **Chow D**. The Impact of Artificial Intelligence on Intracerebral Hemorrhage Detection Accuracy for Medical Students and Radiology Trainees. American Society of Neuroradiology 2024, Las Vegas, NV.
74. Bardis M, **Chow D**, Chang P. Brain Tumor Images Modified by OpenAI Artificial Intelligence: Detectable or Imperceptible?. American Society of Neuroradiology 2024, Las Vegas, NV.
73. Desai R, **Chow DS**, Soundara M, Akers J, Siu W, Chang PD, Soun JE, Thompson L, Khan S, Amin A. SARS CoV-2 Research Update - Treatment - Monoclonal antibody infusion for COVID-19 emergency room patients. Abstract accepted for Poster Presentation at Military Health System Research Symposium (MHSRS). August 2021.
72. Kuoy E, Soun JE, Biswas A, Masudathaya L, Norrick L, Chang PD, Fox C, Yu W, **Chow DS**. Biomarkers for TBI: Diagnostic and Prognostic Indicators - Initial review of novel portable, bedside MRI – bringing scanners to the patients. Abstract accepted for Poster Presentation at Military Health System Research Symposium (MHSRS). August 2021.

71. Chang PD, **Chow DS**, Alber A, Lin YK, Youn YA. Predictive Values of Location and Volumetric MRI Injury Patterns for Neurodevelopmental Outcomes in Hypoxic-Ischemic Encephalopathy Neonates. ePoster Presentation at ASNR (Virtual) Annual Meeting; May 2021.
70. McLouth J, Elstrott S, Chaibi Y, Quenet S, Chang PD, **Chow D**, Soun J. Validation of a Deep Learning Tool in the Detection of Intracerebral Hemorrhage and Large Vessel Occlusion. Abstract accepted. ASNR 2021 Virtual Annual Meeting.
69. Wing J, **Chow D**, Soun J, Drum E, Ryan N, Boden-Albala B. Metabolic syndrome is associated with severe outcomes among COVID-19 hospitalizations. Abstract accepted for APHA's Annual Meeting and Expo. October 2020.
68. Kuoy E, Girn S, Miner N, Chu E, **Chow D**, Hasso AN, Soun J, Florioli D. Gone in a Puff of Smoke: A Review of Moyamoya Angiopathy. Educational Poster presented at the American Society of Neuroradiology Annual (Virtual) Meeting, Las Vegas, NV. June 2020.
67. Chantaduly C, Houshyar R, Bardis M, Ushinsky A, Glavis-Bloom J, Liu Hanna, Chahine C, **Chow D**, Chang P (2020). Artificial Intelligence Pipeline for Renal Parenchyma and Tumor Detection. Abstract presented at the 2020 Annual Meeting of the *Society for Imaging Informatics in Medicine (SIIM)*, Austin, TX. June 2020.
66. Chahine C, Bardis M, **Chow D**, Chang PD, Kohanteb P, Fujimoto D, Houshyar R. Prostate AI Explained: A Review of the Advances in Artificial Intelligence Technologies in Prostate MRI. Educational Exhibit. Abstract accepted for ARRS Annual Meeting: Chicago, Illinois. May 2020.
65. Bardis M, Glavis-Bloom J, Ushinsky A, Chahine C, Houshyar R, **Chow D**, Chang P. Training Size vs. Performance for Deep Learning Prostate Organ Segmentation: How many cases do you need? Scientific Exhibit. Abstract accepted for ARRS Annual Meeting: Chicago, IL. May 2020.
64. Bardis M, Chang P, **Chow D**, Chahine C, Grant W, Liu H, Houshyar R. From Sequence to Consequence: Deep Learning for Prostate MRI Sequence Classification. Scientific Exhibit. Abstract accepted for ARRS Annual Meeting: Chicago, IL. May 2020.
63. Bardis M, Houshyar R, Rupasinghe M, Chantaduly C, Tran-Harding K, Glavis-Bloom J, Ushinsky A, Chang P, **Chow D**. Prostate Transitional and Peripheral Zone Segmentation With Artificial Intelligence. Oral Scientific Paper. Abstract accepted for Association of University Radiologists Annual Meeting: Philadelphia, Pennsylvania. April 2020.
62. Nagamine M, Kohanteb P, Yu W, Bardis M, Wu T, Su L, **Chow DS**, Chang PD, Chen J, Soun J. Detection of Hemorrhagic Expansion With AI. Poster Presentation at the International Stroke Conference; Los Angeles, California. February 2020.

61. Soun J, **Chow D**, Yu W, Chang PD. Artificial Intelligence in Acute Cerebrovascular Disease. Abstract accepted. American Society of Neuroradiology 2020 Virtual Annual Meeting.
60. Bardis M, Houshyar R, Chantaduly C, Ushinsky A, Glavis-Bloom J, Kohanteb P, Fujimoto D, **Chow D**, Chang P. Prostate Transitional Zone and Peripheral Zone: Segmentation with Deep Learning. Poster Presentation at Radiological Society of North America 2019 Scientific Assembly and Annual Meeting: Chicago, IL. Dec 2019.
59. Michelle B, Houshyar R, Chantaduly C, Ushinsky A, Glavis-Bloom J, Kohanteb P, Fujimoto D, **Chow D**, Chang P. Prostate Cancer Detection, Quantification, and Characterization with Artificial Intelligence. A Poster Presentation at RSNA Annual Meeting: Chicago, IL. Dec 2019.
58. Jacquez N, Le JH, Shaver M, Kohanteb P, Takhtawala R, Filippi CG, Chu E, **Chow D**, Chang PD, Soun J. Artificial Intelligence and Stroke Imaging: Past, Present, and Future. Educational exhibit; Abstract accepted for RSNA. July 2019.
57. Akers JY, **Chow DS**, Yu W, Chang PD. Real-time Detection, Localization, and Quantification of Intracerebral Hemorrhages with Artificial Intelligence. Poster presentation at the UC-wide AI in Biomedicine Conference: Los Angeles, CA. June 2019.
56. Chang PD, Kart T, **Chow DS**, Monuki ES, Tang Z, Keiser MJ, Dugger BN. Classification of Amyloid Beta Deposition Patterns: Comparison of Customized Deep Learning Approaches AI. Poster presentation at the UC-wide AI in Biomedicine Conference: Los Angeles, CA. June 2019.
55. Lin C, Refugio S, **Chow DS**, Chang PD. Utilizing Feature Detection in Medical Imaging: Deep Learning for Cardiomegaly Determination. Poster presentation at the UC-wide AI in Biomedicine Conference: Los Angeles, CA. June 2019.
54. Le J, Thompson M, Kuoy E, Homo R, Chen J, Abcede H, Shafie M, Su MY, Yu W, **Chow D**, Chang P. Automated Subarachnoid Hemorrhage Evaluation on Head CT Using Artificial Intelligence. Oral presentation at the International Subarachnoid Hemorrhage Conference: Amsterdam, Netherlands. June 2019.
53. Chang PD, Akers, JY, **Chow DS**. Real-time Detection, Localization, and Quantification of Intracerebral Hemorrhages with Artificial Intelligence. Oral Presentation at ICTS Translational Science Research Day: University of California, Irvine. May 2019.
52. Yoon C, Van J, Bardis M, Bhattar P, Ushinsky A, Glavis-Bloom J, Chantaduly C, **Chow D**, Houshyar R, Chang P (2019). Automated prostate lesion detection and PI-RADS assessment with deep learning. Published online for *American Society of Clinical Oncology* 2019 Annual Meeting. Chicago, IL. Online Presentation.
51. Takhtawala R, Tapia Negrete N, Shaver M, Kart T, Zhang Y, Park VY, Kim MJ, Su MY, **Chow DS**, Chang P (2019). Automated artificial intelligence quantification of fibroglandular tissue on breast MRI. Published online for *American Society of Clinical Oncology* 2019 Annual Meeting. Chicago, IL.



50. Tapia Negrete N, Takhtawala R, Shaver M, Kart T, Zhang Y, Kim MJ, Park VY, Su MY, **Chow DS**, Chang P (2019). Automated breast cancer lesion detection on breast MRI using artificial intelligence. Published online for *American Society of Clinical Oncology* 2019 Annual Meeting. Chicago, IL.
49. Yin K, Liu C, Bardis M, Martin J, Liu H, Ushinsky A, Glavis-Bloom J, Chantaduly C, **Chow DS**, Houshyar R, Chang P (2019). Deep learning segmentation of kidneys with renal cell carcinoma. Published online for *American Society of Clinical Oncology* 2019 Annual Meeting. Chicago, IL.
48. Cruz A, Kwong A, Yi L, **Chow D**, Weinberg B, Tjoa T, Floriolli D (2017). Diffusion of Good Ideas: Using Diffusion Weighted Imaging for Problem Solving in Head and Neck Radiology. Educational Exhibit presented at the American Society of Head and Neck Radiology, Las Vegas, NV.
47. Rajpoot R, Kuoy, E, Nguyen C, Ton J, **Chow D**, Floriolli D (2017). Can You Hear Me Now? A Case-based Review of Sensorineural Hearing Loss. Educational exhibit presented at the *Radiological Society of North America* Meeting, Oak Brook, IL (Accepted)
46. Kuoy E, Nguyen C, Anderson B, Rajpoot R, Tjoa T, **Chow D**, Floriolli D (2017). Head and Neck Cancer Staging Updates in AJCC 8th Edition: What Changed and What the Radiologists Need to Know. Educational exhibit presented at the *Radiological Society of North America* Meeting, Oak Brook, IL
45. Rudd A, Kuoy E, Floriolli D, **Chow D** (2017). Lymphoma: What Differential May Include. Educational exhibit presented at the *Radiological Society of North America* Meeting, Oak Brook, IL
44. Nguyen C, Cruz A, Floriolli D, **Chow D** (2017). Manifestations of HIV in the Central Nervous System: A Case-Based Review for Residents. Educational exhibit presented at the *Radiological Society of North America* Meeting, Oak Brook, IL
43. Gedeon D, Nguyen C, Kuoy E, Ton J, **Chow D**, Floriolli D (2017) Sutton's Law for Epilepsy Imaging: Narrowing the Differential for Seizure Disorders Using an Anatomic Based Approach. Educational exhibit presented at the *Radiological Society of North America* Meeting, Oak Brook, IL
42. Cruz A, Pao J, Cadena G, Ball B, Floriolli D, **Chow D** (2017). Skull Base Imaging: What Your Neurosurgeon Wants to Know. Educational exhibit presented at the *Radiological Society of North America* Meeting, Oak Brook, IL
41. Cruz A, Daun M, Nguyen C, **Chow D**, Anavim A, Floriolli D (2017). Simplifying C-Spine Stability: A Review of Subaxial Injury Classification and Scoring (SLIC) system. Educational exhibit at the *Radiological Society of North America* Meeting, Oak Brook, IL
40. Pao J, Cruz A, Gedeon D, Cadena G, Floriolli D, **Chow D** (2017). The Good, the Bad and the Ugly of Meningiomas: Surgical Considerations and Approaches the

- Radiologist Should Know. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL
39. Padgett M, Pao J, Bardis M, Florioli D, **Chow D (2017)**. Glioblastoma: Evolving Treatment Modalities and their Expected Post-treatment Imaging Changes. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL
  38. Yang L, Rudd A, Homo R, **Chow D**, Anavim A, Florioli D (2017). Drugs, Alcohol, Heavy Metal, and More: Complications in the Spine. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL
  37. Daun M, Mendoza E, Li Y, **Chow D (2017)**. Don't Lose Your Mind Reviewing Neurodegenerative Disorders! Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL
  36. Li Y, Kwong A, Weinberg B, **Chow D (2017)**. An Emotional Memoir of the Limbic System: Reflection on Anatomy and Pathology. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL
  35. Mendoza E, Nguyen C, Homo R, **Chow D**, Anavim A, Florioli D (2017). Radiographic Evaluation of Vertebral Metastasis: Speaking the same language. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL
  34. Ton J, Kuoy E, Nguyen C, **Chow D**, Florioli D (2017). Midnight Radiology: A Primer on Emergent Head CT Findings for the On-Call Resident. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL
  33. Cruz A, Li Y, **Chow D**, Florioli D (2017). Diffusion of Good Ideas: Using Diffusion Weighted Imaging for Problem Solving in Head and Neck Radiology. Educational exhibit presented at the *American Society of Head and Neck Radiology Meeting*, Las Vegas, NV
  32. Cruz A, Pao J, Gedeon D, **Chow D**, Florioli D (2017). Thoracolumbar Spine Trauma: A Review of the Evolving Classification Scheme. Educational exhibit presented at the *American Society of Emergency Radiology Meeting*, Toronto, Ontario, Canada
  31. Dumont-Walter R, **Chow D**, Filippi C, Wilson D (2016). Warning: Side effects may include... A pictorial review of iatrogenic drug related complications in neuroimaging. Educational exhibit presented at *the American Society of Neuroradiology Annual Meeting*. Washington DC
  30. **Chow D**, Narvid J, Dillon W (2016). Bilateral Injuries to the Triangle of Guillain-Mollaret. Educational excerpta presented at *the American Society of Neuroradiology Annual Meeting*. Washington DC
  29. **Chow D**, Talbott J, Uzelac A (2016). Radiation induced spinal cord arteriovenous malformation following treatment of nasopharyngeal carcinoma. Educational excerpta presented at *the American Society of Neuroradiology Annual Meeting*. Washington DC

28. **Chow D**, Talbott J (2016). Mechanism based approaches to identifications of traumatic spine injury. Educational exhibit presented at *the American Society of Neuroradiology Annual Meeting*. Washington DC
27. **Chow D**, Cha S (2016). Research Productivity in Brain Tumor Imaging from 1964-2014: Trends in Globalization, Focus, and Funding. Electronic scientific poster presented at *the American Society of Neuroradiology Annual Meeting*. Washington DC
26. Zhao HT, **Chow D**, Kozberg MG, Shaik MA, Kim SH, Hillman E MC (2015). Optical imaging of neural activity and hemodynamics during the progression of acute stroke. International Society for Cerebral Blood Flow & Metabolism, Vancouver Canada.
25. Zhao HT, **Chow D**, Kozberg MG, Shaik MA, Kim SH, Hillman E MC (2015). Capturing the dynamics of neuronal activity, brain oxygenation, and brain blood flow during acute stroke. Society for Neuroscience Annual Meeting, Chicago IL.
24. Mema E, Ruzal-Shapiro CB, Behr GG, Chen SS, **Chow DS**, Ayyala RS (2015). Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.
23. Chang P, **Chow DS**, Cauley K, Lignelli A, Filippi CG (2014). Semiautomated Segmentation Techniques in Glioblastoma Multiforme: Interobserver Reproducibility Based On Training Level. *American Society of Neuroradiology 2014 Annual Meeting*. Montreal, QC.
22. Lin DJ, **Chow DS**, Cauley K, Utukuri P, Filippi CG, Lignelli A (2014). Bright Ideas: The Physics, Advanced Techniques and Case-based Review of Restricted Diffusion. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.
21. Soun JE, **Chow DS**, Yeh R, Lignelli A (2014). Neuroradiologists' role in guiding others to "choose wisely". Educational exhibit at the *Radiological Society of North America Meeting*, Oak Brook, IL.
20. Lin DJ, **Chow DS**, Yeh R, Lignelli A (2014). That's not appropriate! Educating the radiology resident about ACR appropriateness criteria in neuroimaging. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.
19. Kwak ES, **Chow DS**, Kozberg MG, Shah AD, Lignelli A (2014). Knowing where to look: Organized anatomic approach to evaluating MR images for patients with intractable epilepsy. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.
18. Finkelstone L, **Chow DS**, Akash AD (2014). Law and Order - Neuroimaging: Understanding and minimizing risk for the neuroradiologist. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.
17. Kwak ES, **Chow DS**, Paek G, Shah AD, Lignelli A (2014). What did the surgeon do?! A review of common head and neck post-operative changes and complications.

Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.

16. Browne WF, **Chow DS**, Escudero MR, Behr GG (2013). Gadoxetate Disodium in the Pediatric Population: A Review of Magnetic Resonance Imaging Features of Pediatric Hepatic Lesions. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.
15. Lyall A, Miloushev V, **Chow DS**, Lassman AB, Lignelli A (2013). Radiation Necrosis, Pseudo- progression, and Tumor Recurrence: A Diagnostic Dilemma. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.
14. **Chow DS**, Miloushev V, Win W, Lanzman BA, Shah AD, Lignelli A, Filippi CG (2013). Assessing Glioblastoma Response to Therapy: A Diverse and Rapidly Evolving Field. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.
13. **Chow DS**, Miloushev V, Garger AAV, Dipocce J, Utukuri P, Filippi C, Lignelli A (2013). Behind the name: Eponyms of neuroradiology. Educational exhibit presented at *the American Society of Neuroradiology Annual Meeting*. San Diego, CA.
12. Shah AD, **Chow DS**, Hayim M, Nguyen M, Krishnamoorthy SK (2013). Cancer Diagnosis in the Emergency Department: The Role of the Radiologist. Poster presented at *the Radiological Society of North America Meeting*, Oak Brook, IL.
11. Cantera M, Pollack E, **Chow DS**, Uruijo J, Wynn RT, Kohr JR (2012). Mammography Positioning Checklist and Coaching: An Approach to Improve Imaging Quality. Quality Storyboard presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.
10. Rosines LA, **Chow DS**, Ahmed FS, Lample BS, Ruzal-Shapiro CB (2012). Value of Gadolinium Enhanced Contrast Magnetic Resonance Imaging in Detecting Acute Appendicitis in the Pediatric Emergency Room Population. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.
9. **Chow DS**, Arjuna S, Delapaz RL, Laifer-Narin SL (2012). Window into the Posterior Fossa: An Interactive Review of Fetal Magnetic Resonance Imaging Techniques, Anatomy, and Posterior Fossa and Cerebellar Abnormalities. Educational exhibit
8. **Chow DS**, Hassan K, Arjuna S, Laifer-Narin, SL (2012). An Interactive Review of Ultrasound Evaluation in the Post Renal Transplant Patient. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.
7. Bratt A, **Chow DS**, Horenstein CI, Grinband J, Jambawalikar S, Delapaz, RL (2012). Imaging Characterization of Glioblastoma: A Review of Current Techniques and Use of Resting State BOLD Functional Connectivity Maps. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.
6. **Chow DS**, Lignelli A, Hillman EM (2012). Seeing the Light: A Review of Optical Imaging Techniques and Its Expanding Role in Research and Clinical Applications.

Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.

5. Bahrami S, Sauk S, **Chow D**, Raman S (2009). Value of quantitative and qualitative MDCT indices differentiating oncocytoma from clear cell renal cell carcinoma. Educational exhibit presented at the *American Roentgen Ray Society Annual Meeting*. Boston, MA.
4. Hsu M, **Chow D**, Sauk S, Taghavi CE, Margolis DJ, Raman SS (2009). Unclassifiable and rare renal cell carcinoma subtypes: A dilemma for diagnosis. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL. **(Awarded Certificate of Merit)**
3. **Chow D**, Margolis D Schwope R, Lu D, Raman S (2009). Imaging characteristics of gadoxetate disodium injection in human liver: Is 20 minute delay necessary for diagnosis? Educational exhibit presented at the American Roentgen Ray Society Annual Meeting. San Diego, CA.
2. **Chow D**, Hagvall SH, Beygui RE (2008). CD105+ fraction of human adipose-derived stem cells can differentiate into vascular cells. Poster presented at the Josiah Brown Symposium, Los Angeles, CA.
1. Bahrami S, **Chow D**, Raman S, Kadell B (2008). Did they forget to close the abdomen?! Radiographic appearance of surgical and diagnostic medical foreign bodies. Educational exhibit presented at the *Radiological Society of North America Meeting*, Oak Brook, IL.

## LECTURES & TEACHING SESSIONS

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Aug. 5, 2024	“Neuroradiology Anatomy.” <b>Grand Rounds</b> to the Neurology Department at University of California, Irvine. (Irvine, CA)
Jul. 7, 2024	“Intro to Neuroimaging.” <b>Grand Rounds</b> to the Neurology Department at University of California, Irvine. (Irvine, CA)
May 19, 2024	Moderator: “AI: We’re All In” <b>American Society of Neuroradiology</b> Conference 2024
Mar. 11, 2024	Guest Speaker: "The Role of AI in Radiology" UCRSOM Radiology Interest Group
Oct. 11, 2023	UC Systemwide Virtual Benefits Professionals Symposium “AI Impact in Health care environment” (full title pending).
Mar. 22, 2023	Speaker UC-WECT - UC Wide lecture series in Radiology: “Healthcare and Risk Part II”. UCI Department of Radiology
Mar. 7-8, 2023	Guest Speaker. “Radiology and Risks” Grand Rounds at Emory
Nov. 14-15, 2022	Guest speaker: UCI-TAU Bio-Convergence 2030 conference. Israel.
Sept. 21, 2022	Speaker UC-WECT - UC Wide lecture series in Radiology: “Healthcare and Risk Part”. UCI Department of Radiology
May. 10, 2022	Panel Speaker: Octane’s MedTech Innovation Forum 2022 at AV Irvine, 16500 Scientific, Irvine, CA 92618.
Mar. 10, 2022	Panel Speaker: “ <b>Innovation &amp; Informatics: AI in Practice</b> ”. sponsored by SoCal Society for Information Management (SCSIM). Long Beach Marriott, Long Beach, CA.
Feb. 5-6, 2022	<b>2022 Midwinter Conference</b> -Los Angeles, CA. “ <b>Current applications of future directors of AI in Neuroimaging</b> ” 74 <sup>th</sup> Annual Midwinter Radiology & Radiation Oncology Conference Virtual Conference.
Feb. 8, 2022	Resident Research Lecture series: “Lecture of data science, analytics, machine learning, and/or AI”. UCI Radiology.
Dec. 2, 2021	Guest Speaker: <b>iMerit ML DataOps Summit</b> virtual event
Dec. 2, 2021	<b>RSNA 2021: SSNR14 Neuroradiology session (Techniques and Methods: AI for Image Acquisition)</b> Session Moderator (in person). McCormick Place, Chicago IL.
Oct. 28, 2021	Panel Speaker: <b>Octane’s MedTech Innovation Forum 2021</b> at AV Irvine, 16500 Scientific, Irvine, CA 92618.

Jun. 29, 2021 Guest Speaker: 1) Forecasting Hospital and Critical Care Needs for COVID-19 Hospitalizations 2) Development Validation and Deployment of a COVID-19 Vulnerability Scoring System (VSS) with an Explainable Artificial Intelligence Approach. **UCI COVID Research Fund 2020-2021 Virtual Symposium.**

May 28-30, 2021 Guest Speaker: **Annual Artificial Intelligence, Radiology and Healthcare Congress 2021.** Colombian Association of Radiology (Virtual)

May 27, 2021 “Acute CVA – Thrombolytic Complications” **Hemet Global Medical Center** (via WebEx – Hemet, CA)

May 15-20, 2021 **ISMRM & SMRT 2021 Annual Meeting and Exhibition.** Session Moderator

May 4, 2021 “USE OF IMAGING IN STROKES UPDATE: THE ROLE OF CT, CTA, MRI, MRA, CTP, MRP” **Anaheim Regional Medical Center** (Virtual)

Apr. 27, 2021 “Frictionless Imaging: Unimpeded Access to MR Imaging and Its Transformation of Patient Care” **Hyperfine/Becker’s Webinar**

Apr. 6, 2021 “Emerging Technologies for Sustainable Development special track: AI and its role in dealing with pandemics” **WSIS Forum 2021** (Virtual).

Mar. 2021 Caltech COVID Working Group, UCI (Irvine, CA)

Mar. 19, 2021 “Predicting COVID-19 patient vulnerability with advanced analytics and AI” **UCI COVID19 Pandemic 1<sup>st</sup> annual Symposium.** Center for Virus Research, the Institute for Immunology and the Infectious Disease Science Initiative. (Irvine, CA)

Aug. 14-15, 2020 “The Role of Clinicians in AI Research” **UCI 2020 AI in Radiology 2020 AI Virtual Symposium and Workshop** (Irvine, CA)

Jul. 22, 2020 "COVID-19 and Predictive Modeling" Invited Lecture at University of California, San Francisco (San Francisco, CA).

Jun. 23, 2020 Monitoring and Evaluating AI: Challenges and Practical Implications. Clinical Monitoring: Evaluating Performance and Monitoring Algorithms. **2020 SIIM-ACR Data Science Summit** (Virtual - Austin, TX)

Jun. 3, 2020 ASNR 2020: Focus Session Moderator. CSI Programming: Letting It Ride on AI Machine Learning. **ASNR 2020 annual conference.** (Chicago, IL)

May 28, 2020 “Leveraging Expertise Across UCI to Identify Vulnerable COVID-19 Patients” – **UCI Precision Health Through Artificial Intelligence Initiative Seminar: “Achieving Precision Health in Neuropsychiatry”** University of California, Irvine. (Irvine, CA)

- May 8, 2020 “Neuroimaging Considerations in CKD.” **Brain and Kidney 2020.** University of California, Irvine. (Irvine, CA)
- Feb. 19-21, 2020 Moderator: “Deep Learning for Stroke Imaging” Artificial Intelligence in Stroke Imaging – **International Stroke Conference 2020** (Los Angeles, CA)
- Oct. 26, 2019 “Advanced deep learning in action: real time detection and quantification of ICH.” **2019 UCI Stroke Symposium.** University of California, Irvine. (Irvine, CA)
- May 31, 2019 “Engaging Physicians in Medical Artificial Intelligence Research.” **Southern California AI & Biomedicine Symposium.** University of California, Irvine. (Irvine, CA)
- May 22, 2019 “Clinical Applications of AI in Radiological Sciences and Beyond.” **UCI-KU 2019 Symposium.** University of California, Irvine. (Irvine, CA)
- May 21, 2019 “Use of Imaging in Strokes – The Role of CT, CTA, MRI, MRA, CTP, MRP.” **CME Lecture,** Anaheim Regional Medical Center. (Anaheim, CA)
- Feb. 2019 “Applications of AI and Machine Learning.” **UCI Machine Learning Symposium.** University of California, Irvine. (Irvine, CA)
- Jan. 2019 Gottschalk Pain Clinic Radiology Rounds **University of California, Irvine,** Department of Anesthesiology and Perioperative Care (Irvine, CA)
- Oct. 2018 “Deep Learning for Brain Tumor Prognostics” **Neuroimaging Summit 2018.** (Taipei, Taiwan)
- Oct. 2018 “Artificial Intelligence Driven Imaging Applications.” Artificial Intelligence in Musculoskeletal Radiology Lesion Conference. **Chiba University Medical Center** (Chiba, Japan)
- Aug. 2018 “Healthcare Informatics for Agility/Medical Artificial Intelligence”. **Military Health Research Symposium** abstract presentation. (Kissimmee, FL)
- Jun. 2018 “Deep Learning Identification and Quantification of Cerebral Hemorrhages” **Southern California Biomedical Imaging and Machine Learning Symposium** Presentation at the University of California, Irvine (Irvine, CA)
- Apr. 27, 2018 “Deep Learning @ UCI” **New Hires Data Blitz Talk** at School of Biological Sciences and School of Medicine Third Annual Joint Faculty Retreat (Irvine, CA)



Oct. 20, 2017	Machine Learning Applications: Neuroimaging. <b>Grand Rounds</b> to the Neurosurgery Department at University of California, Irvine. (Irvine, CA)
Feb. 24, 2017	Tumor or not tumor? A case with multifocal cerebral masses confined only to right hemisphere: <b>Clinical Pathological Conference Grand Rounds</b> at University of California, Irvine (Irvine, CA)
Feb. 15, 2017	“Imaging of the Suprahyoid Neck”. <b>Grand Rounds Lecture.</b> to ENT service at University of California, Irvine (Irvine, CA)
2019 – Present	Pain Management Spine Teaching Session – Case Review (8 Conferences/year)
2017 – Present	Neurosurgery Resident Neuroimaging Curriculum (6 Conferences/year)
2017 – Present	Neurology Resident Neuroimaging Curriculum (12 Conferences/year)
2016 – Present	Resident Board Review (3 hours of advanced review for senior radiology residents)
2016 – Present	Radiology Resident Conference (12 Conferences/year in Neuro-Radiology and Physics)
Sep. 2016	Imaging Glioblastoma: Challenges and Emerging Techniques. <b>Invited Lecture</b> to Radiology at University of California, Los Angeles (Los Angeles)
Sep. 2016	Imaging Glioblastoma: Challenges and Emerging Techniques <b>Grand Rounds</b> Lecture to Radiology at University of Southern California (Los Angeles, CA)
Jul. 2016	“Head CT 101” - Introductory lecture to radiology residents at UCSF (San Francisco, CA)
2012 – 2014	Medical student teaching: Responsible for educating third and fourth year medical students in radiology
2007 – 2008	Medical Student Study Program: Provided coursework training for first year medical students