Caroline H. Wilson, PhD

Chapman University, Crean College of Health and Behavioral Sciences Department of Health Sciences 1 University Drive, Orange, CA 92866 | cawilson@chapman.edu | (714) 516-5617

Current Positions

- Instructional Associate Professor of Health Sciences, Director Neuroscience Minor and Interdisciplinary
 Programs, <u>Chapman University</u>, <u>Crean College of Health & Behavioral Sciences</u>, Orange CA; 6 Years
- <u>Team-Based Learning™ Collaborative (TBLC) Trainer Consultant</u>; Self-employed, 5.5 Years
- Medical Education Curriculum Consultant, Rose International for <u>Kaiser Permanente Bernard J. Tyson</u> <u>School of Medicine</u>, Pasadena, CA; 3.5 Years

Education and Training

Degree Programs

Post-Doctoral Fellow	
PhD Neuroscience & Minor in Cellular & Molecular Biology, University of Arizona, Tucson, AZ	2006
BS Neuroscience (cum laude) & Minor in Philosophy, Allegheny College, Meadville, PA	2000

Post-doctoral research, University of Hawai'i, Mānoa, HI,	2008
Supervisor: Dan Hartline, PhD	

Academic Activities: Appointments and Educational Roles

Academic Appointments	
Teaching Assistant, University of Arizona, Tucson, AZ	2001
Lecturer & Adjunct Professor, Department of Biology, Leeward Community College,	2007 2008
Visiting Assistant Professor, Department of Rielegical Sciences, Depison University	2007-2008
Granville, OH	2008-2010
Term Instructor (non-tenure), Department of Biological Sciences, University of Alaska Anchorage (UAA), Anchorage, AK Adjunct Professor, WWAMI School of Medical Education, Anchorage, AK	2010-2015 2011
Term Assistant Professor (non-tenure), WWAMI School of Medical Education, Anchorage AK Affiliate Instructor Creighton University Occupational Therapy Program, Anchorage, AK Affiliate Assistant Professor, University of Washington Physiology Department, Seattle, WA	2015-2017 2015-2017 2016-2017
Associate Instructional (Teaching, non-tenure) Professor, Health Sciences, Chapman University Orange, CA	2017 – Present
Academic Committee Service	
Neuroscience Bridge Scholar, Biological Sciences & Psychology, Denison University, Granville, OH	2008-2010
Collaborated with Neuroscience faculty to organize Neuroscience labs for the concentration.	
Molecular & Cellular Basis of Disease Curriculum Committee, University of Washington School of Medicine, Seattle, WA	2014-2017
Developed syllabi, learning objectives, and assessment questions, designed Canvas learning web platform for course; developed active learning in-class activities;	
collaborated with colleagues from 5 states using virtual meetings to create curriculum	2016-2017
Faculty Senator, Crean College, Chapman University, Orange, CA	2018-2020
Institute for Excellence in Teaching and Learning Faculty Ambassador, Chapman University Assisted Chapman instructors in pedagogical techniques, learning management system (Canvas). and online best practices	2018-2021
Information Technology- Faculty Advisory Group, Crean College Representative, Chapman	2019-present

University, Orange, CA Review technology adoptions (Canvas, Adobe Creative Suite, Proctoring software, Interfolio) and assists with Classroom Technology Focus Group Premedical / Pre-Health Committee, Doctor of Osteopathy Advisor, Chapman University Advises students, attends information sessions, reviews application materials, writes	2019-present
Neuroscience Minor Council Director, Chapman University, Orange CA Develops and reviews Neuroscience Minor Curriculum, Advises Neuroscience students	2019-present
Orange, CA Hiring Committee, Public Health tenure track faculty search for Health Sciences	2020 Spring 2021
Advisor, Leukemia & Lymphoma Society Club, Student Club at Chapman University, Orange, CA	2021-present
Advisor, Faculty Manual Updates, Non-tenure Track faculty ad hoc representative Neuroscience Masters in Science Council Director, Chapman University, Orange CA Hiring Committee, Center for Excellence in Teaching & Learning, Assistant / Executive Directors Non-tenure track Promotional Guidelines ad hoc Committee, Crean College, Chapman University	Spring 2021 2021-present 2022
Orange, CA Hiring Committee, Department of Chemistry, Instructional Assistant Professor search External reviewer, Term Instructional Faculty promotion review, University of Alaska Anchorage	Spring 2022 Fall 2022 Summer 2023
Academic Leadership and Administration Course Director, Cellular Physiology, WWAMI School of Medical Education, Anchorage AK Course Director, Musculoskeletal Anatomy, WWAMI School of Medical Education, Anchorage AK	2012-2014 2014
Alaska Brain Bee High School Neuroscience Competition, University of Alaska Anchorage, with community partnership of the Anchorage Museum, Anchorage AK <i>This regional competition is part of the <u>International Brain Bee</u>, a high school competition developed by Norbert Myslinski, of University of Maryland, Baltimore. The AK Brain Bee encouraged Alaskan high school students to become interested in careers in neuroscience. The AK Brain Bee is currently being run by Dr. Rachael Hannah, UAA Biological Sciences</i>	2011-2017
Course Co-Director Molecular & Cellular Basis of Disease, WWAMI School of Medical Education, Anchorage, AK	2015-2017
Instructor of Record, Clinical Gross Anatomy, Creighton University Occupational Therapy Program	2015-2017
Director, Neuroscience Minor, Chapman University, Orange, CA Director, Interdisciplinary Programs, Chapman University, Orange, CA Manage small budget and student worker; plan MS in Neuroscience program; attend Dean's Leadership Council meetings monthly; update course catalog; training in Program Assessment	2019-present 2021-present
Participant, Health Science and Applied Human Physiology Program Review, Chapman University, Orange, CA Created departmental survey, authored sections of program review	2021
External Program Reviewer, Doctoral of Anatomical Sciences Program Proposal, University of Idaho, WWAMI Medical Education program, Moscow, ID	Fall 2022
Member, Faculty Review Committee, Crean College Reviewed promotion files of non-tenure track faculty	2022-present
Teaching in Programs and Courses Molecular & Cellular Neurobiology recitation, University of Arizona, Tucson, AZ 1 semester 3 credit course, 50 undergraduates Tide Pool Marine Life, Marine Biology Summer Camp Center for the Study of Deserts and	2001
Oceans Puerto Peñasco, Mexico 40 contact hours, 10 middle school students	2003
Utilizing confocal microscopy in molecular biology research, NSF workshop, University of Hawai'i, Mānoa, HI	2008

3 contact hours, 10 graduates, professors	
Olfaction/chemoreception lectures for Comparative Animal Physiology, Graduate	
Neurophysiology, Intro to Neuroscience courses, University of Hawai'i, Mānoa, HI	2007-2008
6 contact hours, 150 undergraduates & graduates	
Anatomy & Physiology I, Lecture & Laboratory, Leeward Community College,	
Pearl City, HI	2007
1 semester 4 credit courses, 24 undergraduates / course	
Anatomy & Physiology II. Lecture & Laboratory, Leeward Community College.	
Pearl City. HI	2008
1 semester 4 credit courses, 24 undergraduates / course	
Neurophysiology Lecture & Laboratory, Denison University, Granville OH	2008
1 semester 4 credit course 30 undergraduates	2000
Molecular and Cellular Biology w/ Laboratory Denison University Granville OH	2007-2008
1 semester course 24 undergraduates / spring course	2007 2000
Introductory Neuroscience for Neuroscience Concentration students. Denison University	2007
Granville OH	2007
1 compater 4 cradit course, 20 undergraduates	
Advanced Neuroscience Lecture & Leb for Neuroscience Concentration students	
Advanced Neuroscience, Lecture & Lab for Neuroscience Concentration students,	2009
Demison University, Granvine OF	2006
1 semester 4 credit course, 30 undergraduates	0040 0045
Anatomy & Physiology I Lecture, University of Alaska Anchorage, Anchorage, AK	2010-2015
1 semester 3 credit course, 80-140 undergraduates / course, 3-4 courses / spring & fail	
semesters	0011
Nervous Systems Lecture & Laboratory, WWAMI School of Medical Education, Anchorage AK	2011
1 semester 4 credit course, 20 medical graduates, spring	0040 0045
Anatomy & Physiology II Lecture, University of Alaska Anchorage, Anchorage, AK	2012-2015
1 semester course, 80-110 undergraduates / course, 1 course / semester	
Special Topics in Neuroanatomy & Neurophysiology, University of Alaska Anchorage,	
Anchorage AK	2012-2014
1 semester 3 credit course, 20-30 undergraduates & graduates / course, 1 course / spring	g
Cell Physiology Lecture, WWAMI School of Medical Education, Anchorage AK	2012-2015
1 semester course 4 credit course, 20 medical graduates, spring or fall	
Musculoskeletal Anatomy Lecture & Laboratory, WWAMI School of Medical Education,	
Anchorage, AK	2014
1 semester course 4 credit course, 20 medical graduates, spring	
Clinical Gross Anatomy Lecture & Laboratory, Creighton University Occupational Therapy	
Program	2015-2017
1 semester 4 credit course, 20 graduates, 1 course / spring	
Neurophysiology Lecture, Service-Learning Course, Biological Sciences,	
University of Alaska Anchorage, Anchorage, AK	2015-2017
1 semester 3 credit course, 20-30 undergraduates & graduates, 1 course / spring	
Human Gross Anatomy, Lecture & Laboratory, WWAMI School of Medical Education,	
Anchorage AK	2015-2017
1 semester 3 credit course, 15 undergraduates, 1 course / spring	
Mind, Brain, Behavior, Small group instruction, WWAMI School of Medical Education,	
Anchorage AK	2016
3 contact hours / week for 1 unit, 20 medical graduates, Fall	
Cardiac, Pulmonary & Renal, Small group instruction, WWAMI School of Medical Education,	
Anchorage, AK	2016
3 contact hours / week for 1 unit, 20 medical graduates, Spring	
Molecular & Cellular Basis of Disease, active learning facilitator, WWAMI School of Medical	
Education, Anchorage AK	2015-2017
1 unit 4 credit course, 20 medical students, Fall	
Human Anatomy Laboratory, Chapman University, Orange, CA	2017-present
1 semester 1 credit course, 20-25 undergraduates, 1-2 courses / semester	•
Utilize Anatomage™ Virtual Cadaver tables, Complete Anatomy software, stereomicrosc	ору,

and 3D Printing in coursework	
Applied Human Neurophysiology lecture, Chapman University, Orange, CA	2020-present
1 semester 3 credit course, 20 undergraduates, 1 course / spring	
Otilize Anatomage III Virtual Cadaver tables, Complete Anatomy software, stereomicrosci 2D Printing, and Virtual Papity Opulus Co gogglop in sourcework	ору,
Introduction to Neuroscience Lecture, Chapman University, Orange, CA	2020-present
1 semester 3 credit course, 21 undergraduates, 1 course / fall	2020 prosent
Introduction to Neuroscience Laboratory	2020-present
1 semester 1 credit course, 21 undergraduates, 1 course / fall	
Utilize iWorx Physiological Psychology equipment, imageJ, Python and Allen Institute	
Educational Resources in coursework	
Advising and Mentoring (Last 5 years)	
Research Students	
Austin Densmore, Valencia High School, Internship Advisor for 3D printing	2017-2018
Attending college	
Kinnera Reddy, Chapman University, Research advisor on project "Bringing 3D printed	
Knee models to the community"	2018-2019
Graduated Chapman University Spring 2020	
Jonnny Altwal, Chapman University, Internship and Research Advisor on Veterinary	2010 2021
Senior, Chanman University applying to Veterinary schools	2019-2021
Lexi Lee. Chapman University Research Advisor for Case Study in Neuroscience	2020-2021
Senior, Chapman University	2020 2021
Diane Kim & Matthew Kim, Research Advisor for Literature Review on Caffeine	Fall 2020
Juniors, Chapman University	
Undergraduate & Alumni Advising	2017 propert
nealth Science student & alumini advising. 15-00 undergraduates in careers and	2017-present
Neuroscience advising: advise Neuroscience minors in careers and coursework:	2020-present
Additional advising to post-graduate students regarding PhD programs	p
Created advising, internship, career portal on Padlet	
Advising and Mentoring Peers (Last 5 years)	
Improving the Quality of Your Multiple-Choice Questions, Institute for Excellence in Teaching	2018
Digital Distractions in the Classroom Institute for Excellence in Teaching & Learning	2010
Summer Institute. Chapman University. CA	2019
University Advancement Friday Coffee Guest, Chapman University, Orange CA	Dec 4, 2020
Discussed best practices for online lab education to Advancement team members	
Chapman University Institute for Excellence in Teaching & Learning (IETL) JanCon,	Jan 19, 2021
Hybrid Teaching at Chapman Panelist & Creator of 2minute Lightning Talk, <u>"Is</u>	
Orientation the Key for HyFlex Success?"	E.I. 00. 0004
Chapman University Institute for Excellence in Teaching & Learning (IETL) First Year Faculty	Feb 26, 2021
Chanman University Institute for Excellence in Teaching & Learning (IETL) Open Educational	$\Delta nr 15 2021$
Resources presentation	Api 10, 2022
Team-Based Learning Social Hour, Facilitator, "Welcome to the TBLC Community!"	Aug 10, 2022
Chapman University Center for Excellence in Teaching & Learning (CELT) JanCon,	Jan 13, 2023
"Introduction to Team-Based Learning and Backwards Design Principles"	
Introduction to Team-Based Learning; Dominican University faculty, Online presentation	Feb 23, 2023
Leam-Based Learning Collaborative: Fundamentals in TBL Training Orlando FL	Mar 11, 2023

Other Work Experience

Medical Education Curriculum Consultant, Rose International for Kaiser Permanente Bernard 2017 J. Tyson School of Medicine, Pasadena, CA 2020-present Curriculum, assessment, and content witter for Gastrointestinal/Endocrine/Metabolism, Reproductive/Urinary, and Musculoskeletal/Dermatology Units (Histology, Anatomy, Embryology). Curriculum mapping using Elentra Learning Management System. Collate Professional Development Activities (last 5 years) Team-Based Learning Collaborative Annual Meetings & Workshop Attendee 2018-2023 Anatomage Table User's Meeting, San Jose, CA 2017-2018 Learned about updates for the Anatomage Virtual Cadaver Tables, InVivo Software for 3D printing with medical imaging 2018 Chapman University IETL JanCon, Reach Everyone, Teach Everyone with Universal Design feetback for neurodiverse learners 2018 Society for Neuroscience Online Webinar: Undergraduate Neuroscience Pedagogy: Perspectives from Different Institutions 2018 Learned about update for Excellence in Teaching & Learning (IETL) Summer Institute, Generation Z 2019 Chapman University Institute for Excellence in Teaching & Learning (IETL) Summer Institute, Generation Z 2019 Neuroscience Virtual Conference, "Mitigating Implicit Bias: Tools for the Neuroscientist" 2019 TBLC, Online Webinar "Getting Research Ideas with the Aim of Publication" 2019 Various facuity described how they were utilizing innovative tools	Team Based Learning Consultant, Team-Based Learning Collaborative, Self-Employed,	2017 present
J. Tyson School of Medicine, Pasaden, CA Curriculum, assessment, and content writer for Gastrointestinal/Endocrine/Metabolism, Reproductive/Urinary, and Musculoskeletal/Dermatology Units (Histology, Anatomy, Embryology). Curriculum mapping using Elentra Learning Management System. Collate practice assessments using UWorld & Amboss learning systems. Collate NBME questions for unit exams. Professional Development Activities (last 5 years) Team-Based Learning Collaborative Annual Meetings & Workshop Attendee 2018-2023 Anatomage Table User's Meeting, San Jose, CA Learned about updates for the Anatomage Virtual Cadaver Tables, InVivo Software for 3D printing with medical imaging Chapman University IETL JanCon, Reach Everyone, Teach Everyone with Universal Design for Learned Several techniques for universal course design, gamification, and developing feedback for neurodiverse learners Society for Neuroscience Online Webinar: Undergraduate Neuroscience Pedagogy: Perspectives from Different Institutions Learned ideas for program development for a minor / major in Neuroscience Chapman University IETL JanCon, Chapman University Technology Tools 2018 Learned about the newest generation of college students & their needs Chapman University IETL JanCon, Chapman University Technology Tools 2019 Society for Neuroscience Virtual Conference, "Mitigating Implicit Bias: Tools for the Neuroscienties MSC Onference to help propare for the LMS transition to Carvas; workshops on Carvas technology for GF integration and anatomy videos Occidental College lecture MSC Conference to help propare for the LMS transition to Carvas; workshops on Carvas technology for GF integration and anatomy videos Occidental College lecture MSC Softence to help propare for the LMS transition to Carvas; workshops on Carvas technology for GF integration and anatomy videos Occidental College lecture MSC Softence to help propare for the LMS transition to Carvas; workshops on Carvas technology for GF integration in virtual space".	Medical Education Curriculum Consultant, Rose International for Kaiser Permanente Bernard	
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	Using Proctorio in Canvas, Chapman University IETL & EduTech	Fall 2020

New Course Approval System Training, Chapman University Faculty Affairs	Fall 2020
Proctorio Roundtable Discussion, Chapman University IETL & EduTech	Fall 2020
Chapman University Institute for Excellence in Teaching & Learning (IETL) JanCon,	2021
Hypothesis Training & "Planning for the Unknowns (and Knowns) of Future Semesters"	
Nuts and Bolts of Tenure and Promotion Workshop, Chapman University	Mar 16, 2021
Canvas Anonymous Grading Training, Chapman University	Mar 18, 2021
Adobe Digital Literacy Café: The Impact of Creativity in STEM	Mar 24, 2021
Chapman University Institute for Excellence in Teaching & Learning (IETL) "Leveling Up	Apr 6, 2021
Your Teaching" Attendee	
Neuroscience Teaching Conference Attendee online conference	Jul 22-23, 2021
Inclusive Teaching Keynote & Workshop with Dr. Jose Antonio-Bowen, Chapman IETL Summer	
Institute	Aug 19, 2021
Editing Videos with Adobe Premiere Rush, Chapman IETL Summer Institute	Aug 20, 2021
"Fallacies in Neuroscience". Society for Neuroscience Webinar	Feb 22, 2022
"Teaching Neuroscience: Reviving Neuroanatomy". Society for Neuroscience Webinar	Apr 13, 2022
Open Educational Resources, Chapman IETL Happy Hours	Spring 2022
Faculty for Undergraduate Neuroscience, "FUN Faculty Friday" participant, once monthly	2021-current
"Introduction to Narrative Medicine". Rita Basuray, University of Kentucky (online workshop).	July 11, 2023

Professional Honors and Awards

NIH/NIA Institutional Predoctoral Training Program in Neuroscience	
(3 T32 AG007434-05S2 Levine), University of Arizona	2002 – 2003
NIH/NIDCD Ruth L. Kirschstein Individual Predoctoral Fellowship (1 F31 DC006368-01A1),	
University of Arizona	2003 – 2005
Cades Postdoctoral Fellowship, Pacific Biosciences Research Center, University of Hawaii	2007 – 2008
Mount Desert Island Biological Laboratory New Investigator Award for "Identifying the novel	
formation of Copepod myelin" (\$8000 towards lab space & housing)	2009
UAA Center for Community Engagement and Learning Mini-grant for the Alaska Brain Bee	
(\$250-\$2700 / year)	2012 – 2016
Nominee, Chancellor's Award for Excellence in the category of Excellence in Teaching, UAA	2012
Travel Award to attend TBL conference to become a TBL certified Trainer	
(San Diego & Ft. Worth)	2013 – 2014
Named an Influential person by a first- or second-year student at UAA by Division of Student	
Access, Advising and Transition office, UAA	2015 – 2016
Chapman University Teaching Pedagogy Innovation Grant for "Utilizing 3D printing and	
3D scanning to Train Future Health Care Professionals" \$5000	2019-2020
Chapman University Career Champion Nominee, Crean College	2021

Community Activities Education, and Outreach

Community-Based Presentations	
Presenter IIAA Planetarium Neurodome and Nanocam: A Trip into Riodiversity planetarium	2011 2017

Tresenter. OAA Flanetandin, Neurodonie and Nanocam. A Trip into biodiversity planetandin	2011-2017
Shows; led discussions 3-4 times a year about Biology to Anchorage public, STEM	
teacher training, and NSF EPScoR grant writers (Spring, 2013)	
Community-Based Mentorship	
Sponsored a Community Engaged Student Assistant (CESA) each year to help with the Alaska	2010-2016
Brain Bee and other Neuroscience Outreach community events (Elementary science	
nights at Huffman and Oceanview, Creative Activities Fair). CESAS: Sean Costello	
(2010-13), Sarah Johns (2014-15), Emily Rom (2015-16); Anchorage, AK	
Alaska Brain Bee Regional Winner Mentor; Helped Tutor the Winner of AK Brain Bee to be	
prepared for the National Brain Bee competition.	2013-2017

Community Recognition

Community Builder Award, given to a member of the Anchorage Community for dedication to community service, Awarded by UAA Center for Community Engagement and Learning	2017
Other Community Activities OH Yoga Voluntary Advisory Council, OH Yoga, Orange, CA Provided feedback on yoga protocols during the Covid-19 pandemic quarantine; Gives feedback during instructor auditions	2020-current
Canyon Community Garden Co-Leader, Silverado Modjeska Recreation and Park District	2018-current
Professional Association Activities Professional Memberships Society for Neuroscience Foundation for Undergraduate Neuroscience Team-Based Learning Collaborative	2001-present 2008-present 2013-present
 Professional Association Leadership Positions or Committee Activities Team-Based Learning Collaborative (TBLC) Steering Committee (member 2022-present) Membership Committee Chair (member 2018-2021, appointed chair 2022-present): Lead a 10-person committee to develop methods and programs for active membership recruitment and retention, edit/publish TBLC Connection Newsletter and monitor the website. Developed the New Mentor-Mentee program, Zoom Q & A for new members, and the TBL social hour. Attends Steering Committee Meetings as Chair 	2018-present
 Marketing Committee member: (appointed) Reviewed and advised on the marketing activities of the TBLC. Developed and submitted annual marketing plan to the Steering Committee 	2018-2021
 Nominating Committee member (elected): This 5-person committee determined a suitable group of candidates for election to the Steering Committee 	2018-2020
• Online TBL Certification Workshop Committee member (appointed) This 7-person informal committee meets to discuss best practice in teaching online TBL to begin developing a certification program in online TBL practice	2020
 New Member Mentor Helps new members with questions related to their TBL journey 	2021-current
TBL Practitioner Certification mentor Reviews 2-3 candidate portfolios and provides feedback towards their certification	2021-current

Scholarship – Peer-Reviewed Published Research

Published and Forthcoming Research Articles – Print Journals *Signifies undergraduate student

- Wilson CH, Christensen TA, Nighorn AJ. (2007) Inhibition of nitric oxide and soluble guanylyl cyclase signaling affects olfactory neuron activity in the moth, Manduca sexta., J Comp Physio [A] 193(7): 715-728.
- Wilson CH, Christie AE. (2010) Distribution of allatostatin C-like immunoreactivity in the central nervous system of the copepod crustacean *Calanus finmarchicus*. Gen Comp Endocrin. 1;167(2):252-60.
- 3. Kilpatrick H*, Christie AE, **Wilson CH.** (2010) Immunofluorescent localization of voltage-gated sodium channels to identify node-like structures in nerve fibers of the sand shrimp (*Crangon septemspinosa*). MDIBL Bulletin (49): 31.
- 4. Costello K*, Chung JS*, Skarke S*, Lenz P, **Wilson CH**. (2010) Identification of voltage-gated sodium ion channel genes in the copepods *Calanus finmarchicus*, *Bestiolina similis, Undinula vulgaris*, and *Parvocalanus crassirostris*. MDIBL Bulletin (49): 37.

- Wilson CH, Hartline DK. (2011) The novel organization and development of copepod myelin II: non-glial origin. J Comp Neurol (519): 3281-3205. This article was selected by a member of the Faculty of 1000 (F1000), a service that places publications in a library of the top 2% of published articles in biology and medicine. See: <u>http://f1000.com/prime/11672956</u>
- 6. **Wilson CH**, Hartline DK. (2011) The novel organization and development of copepod myelin I: ontogeny. J Comp Neurol (519):3259-80.
- Lei H, Reisenman C, Wilson C, Gabbur P, Hildebrand JG. (2011) Spiking patterns and their functional implications in the antennal lobe of the tobacco hornworm Manduca sexta. PLOS ONE 6(8): e23382. doi: 10.1371/journal.pone.0023382.
- 8. Altwal J*, **Wilson CH**, Griffon D. (2021) Applications of Three-Dimensional Printing in Small Animal Surgery: A Review of Current Practices. Veterinary Surgery; 1-18. doi: 10.1111/vsu.137399.

Scholarship – Non-Peer-Reviewed Published Research

Images

1.	Honorable Mention, Copepod Nikon Small World Confocal Image Contest	2007
2.	Cover of Marine Biotechnology: confocal image of a marine copepod, Labidocera	2007
	species with previously uncharacterized presence of Green Fluorescent Protein;	
	Image was also Figure 4 in: Mocz G. Fluorescent Proteins and Their Use in	
	Marine Biosciences, Biotechnology, and Proteomics. Mar Biotechnol 9 (305-328).	2010
3.	Cover of Gen Comp Endocrin for accompanying article 1;167(2):252-60.	

Scholarship – Educational/Technological Development and Innovations Curricula and Educational Materials

1.	Wilson CH , Developer, Syllabus, Introductory Neuroscience, Denison University, OH	2007
	Created interdisciplinary, service-learning course where students learned about	
	neuroscience while volunteering in the local community foundations	
2.	Wilson CH, Developer, Syllabus, Advanced Neuroscience, Denison University, OH	2008
	Created advanced neuroscience course with electrophysiology, physiological psychology	
	and neuroanatomy lab exercises	
3.	Wilson CH, Developer, Syllabus, Special Topics in Neurophysiology / Neurophysiology	
	Lecture University of Alaska Anchorage (UAA), Anchorage AK	2012-2017
	Created neurophysiology course syllabus including service-learning module, human	
	cadaver neuroanatomy lab module, Team-based learning modules (4), and Student-	
	designed Team-based learning modules using a "blank syllabus" approach	
4.	Wilson CH, Developer, Anatomy & Physiology I & II, Instructional slide decks, UAA	2011-2015
	Designed PowerPoint lecture slide decks still being used by faculty at UAA	
5.	Wilson CH, Elswick J. Developers, Clinical Gross Anatomy, recorded narrated lectures	2015-2017
6.	Wilson CH, Ritter M. Developers, Introduction to Active Learning with HIPPA	2015-2016
	First year medical student orientation to why active learning pedagogies are superior	
	to traditional lectures; incorporated HIPPA basics for prework and application exercise	
	Wilson CH, Fuerst P, Hille B. Developers, Molecular & Cellular Basis of Disease,	
	WWAMI School of Medical Education	2014-2017
	Prework Readings for Physiology Content (Signal Transduction, Membrane Physiology,	
	Somatosensation, Pain & Reflexes, Autonomic nervous system anatomy, physiology &	
	disorders, Muscle physiology & disorders). Adapted versions still be used currently	
7.	Wilson CH, Fuerst P. Developer, Molecular & Cellular Basis of Disease, WWAMI	
	School of Medical Education	2014-2017
	Active learning, Team-based learning Modules for Physiology Content (Signal	
	Transduction, Membrane Physiology, Somatosensation, Pain & Reflexes, Autonomic	
	nervous system anatomy, physiology & disorders, Muscle physiology & disorders)	
	Adapted versions still being used	
8.	Wilson CH, Fuerst P. Developer, Molecular & Cellular Basis of Disease, WWAMI	
	School of Medical Education	2014-2017
	Multiple-choice Assessment questions for Physiology Content (Signal Transduction,	
	· · · · · · ·	

9.	Membrane Physiology, Somatosensation, Pain & Reflexes, Autonomic nervous system anatomy physiology & disorders, Muscle physiology). Adapted questions still being used Wilson CH , Richards DR. Developer, Human Anatomy Lab Curriculum & Syllabus, Chapman University, CA Created updated assessment, syllabus, and curriculum to include virtual cadaver Anatomage Table, Complete Anatomy software, and 3D printing based on medical images	2017-current
10. 11.	Wilson CH, Densmore A, Bird D. 3D Printed Artic Fox, Elephant seal, and Wolverine skulls for educational purposes (BBC Video, conference presentations for D Bird) Wilson CH. Developer, Applied Human Neurophysiology Syllabus, Chapman University Developed flipped classroom approach with modules on virtual neuroanatomy/radiology, 6 modified TBL case studies; 3 student led TBL modules; modified curriculum for online TBL teaching after March 16 Covid lockdown	2018-2019 2020
12.	Wilson CH , Belghasem M. Co-Developers, IS2 Genitourinary Reproductive Unit, Bernard J. Tyson School of Medicine, Pasadena, CA	2020
13.	Wilson CH, Lopez-Ojeda W, Roehmholdt BF. Co-developers, IS5 Musculoskeletal_ Dermatology Prework, Modules for: musculoskeletal system	2020
14.	Independent Learning Modules for musculoskeletal system Wilson CH. Developer, Syllabus Introduction to Neuroscience Lecture, Chapman University Created flipped-classroom curriculum exploring the history, present, and future of neuroscience research	2020
15.	Wilson CH . Developer, Syllabus Introduction to Neuroscience Lab, Chapman University <i>Created laboratories utilizing Neurophysiology simulation software,</i>	2020
16.	Allen Brain Institute open source databases, and iWorx physiopsychology experiments Lee L*, Kim D*, Sternlicht E, Wilson CH . Professor Eric Can't Hear: Vestibular Schwannoma Brain Imaging Teaching Case study. National Center for Case Study Teaching in Science (published); archived at National Science Teaching Association (case can be downloaded with a login). <u>https://www.nsta.org/ncss-case-study/professor-eric-cant-hear-0</u>	2021
Pedago Invited	ogical Innovations (last 5 years) Pedagogical Innovation Presentations Local	
	 Wilson CH. Online Active Learning. Remote Teaching Town Hall. Institute for Excellence in Teaching & Learning, Chapman University. [Presenter] National 	4/17/2020
	 Wilson CH, Ogilvie J, Watson T, Utilizing Case Studies in Online Neuroscience Courses, Moderated Social, Foundation for Undergraduate Neuroscience Virtual Meeting. [Presenter] 	7/31/2020
	 International Wilson CH, Integrating a "Blank Syllabus" with Team-Based Learning (TBL): Student designed TBL modules in a Neurophysiology course, Team Based Learning Collaborative 17th Annual Meeting. Round-Table Oral Presentation. San Diego, CA. 	
	 [Presenter] Winter L and Wilson CH, Fundamental Principles and Practices of Team-Based Learning. 18th TBLC Annual Meeting, TBLC Practitioner Certification Workshop 	3/2/2018
	 Tampa, FL [Planned Presenter but missed presentation due to flight delay] Clark M, Dolowitz A, Leonard B, Wilson CH. Experiences in Moving TBL Online. Team-Based Learning Collaborative Free Online Webinar. TBLC. [Presenter & 	3/14/2019
	Organizer] 4. Clark M, Dolowitz A, McCarter R, Wilson CH , Winter L, The Essentials of Online	5/12/2020

5.	Team-based Learning, TBLC Webinar, offered to TBL Committee members [Presenter & Organizer] Clark M, Dolowitz A, McCarter R, Wilson CH , Winter L, The Essentials of	8/13/2020				
6.	Moving to Online Team-based Learning, TBLC International Webinar for TBLC Members. [Presenter & Organizer] Dolowitz A, McCarter R, Moscova M, Wilson CH , Winter L, The Essentials of	8/29/2020				
7.	Moving to Online Team-based Learning, TBLC International Webinar for TBLC Members. [Presenter & Organizer] McCarter R, Wilson CH , Winter L. The Essentials of Moving to Online Team-Based Learning; Group for Research in Pathology Education (GRIPE) Annual Conference.	11/13/2020				
8.	[Presenter & Organizer] Brooks M, Clark M, Dolowitz A, McCarter R, Moscova M, Wilson CH , Winter L. Create and Curate for Success: Designing Learner-Centred Pre-work. Team-Based	4/13/2022 4/19/2022				
9.	Wilson C . The TBLC Module Resource Portal: Explore its Hidden Treasures. Team- Based Learning Collaborative Annual Meeting, Orlando, FL. [Presenter & Organizer]	3/13/2023				
Academic Posters, and Abstracts (last 5 years) International						
1. 2.	Wilson CH , Poster Presentation, Exploring neuroanatomy technologies: A "brain in hand" approach utilizing 3D models for undergraduate learning. Society for Neuroscience Meeting, San Diego, CA. 024.13SU [Presenter] Wilson CH , Clark M, Innovations in Recruitment and Retention for the Team-Based	10/2018				
3.	Learning Collaborative (TBLC). TBLC Annual Meeting [^] , Portland OR. #401 ([^] meeting canceled due to Covid-19). [Presenter] Clark M, Dolowitz A, Leonard B, McCarter R, Moscova, M, Wilson CH , Winter L. Essentials for Moving Team-Based Learning Online: Low-cost, no-cost and widely available tools to help you transform your courses. TBLC Annual Meeting (virtual).	3/12/2020				
	[Presenter]	3/7/2021				
nmunit Reddy studen	y Educational Resource Development and Innovations K, Densmore A, Wilson CH . 3D-printed knee joint models to teach high school ts about knee injury prevention. Chapman University, Orange CA	2018-2019				
Blogs and Newsletters– Guest Posts						
 Wilson CH. 3D-Printed Neuroscience Models for Everyone. Faculty for Undergraduate Neuroscience Newsletter, January 2019. URL: https://www.funfaculty.org/blog.home.asp2display=8 						
 Wilson CH. Team-Based Learning While Remote Teaching. Higher Ed & Technology: Academics at Chapman Blog post. Chapman University, April 20, 2020. URL: https://blogs.chapman.odu/academics/2020/04/20/team.based.learning/ 						
Wilson Tea UR	CH , Vieira E (Zoom videographer), Rinaldi C, Challenges of Online Application Exerc am-Based Learning Collaborative, Global News Special Edition, Vol 10 (1), June 30, 2 L: <u>https://teambasedlearning.site-</u>	ises, 020.				
	5. 6. 7. 8. 9. demic rnation 1. 2. 3. 3. munit Reddy studen 1. 2. 3. 3. Wilson Aca UR Wilson Aca UR	 Team-based Learning, TBLC Webinar, offered to TBL Committee members [Presenter & Organizer] Clark M, Dolowitz A, McCarter R, Wilson CH, Winter L, The Essentials of Moving to Online Team-based Learning, TBLC International Webinar for TBLC Members. [Presenter & Organizer] Dolowitz A, McCarter R, Moscova M, Wilson CH, Winter L, The Essentials of Moving to Online Team-based Learning, TBLC International Webinar for TBLC Members. [Presenter & Organizer] McCarter R, Wilson CH, Winter L. The Essentials of Moving to Online Team-Based Learning; Group for Research in Pathology Education (GRIPE) Annual Conference. [Presenter & Organizer] Brooks M, Clark M, Dolowitz A, McCarter R, Moscova M, Wilson CH, Winter L. Create and Curate for Success: Designing Learner-Centred Pre-work. Team-Based Learning Collaborative Annual Meeting, Virtual Meeting. [Presenter & Organizer] Wilson CT. The TBLC Module Resource Portal: Explore its Hidden Treasures. Team- Based Learning Collaborative Annual Meeting, Orlando, FL. [Presenter & Organizer] Wilson CH, Poster Presentation, Exploring neuroanatomy technologies: A "brain in hand" approach utilizing 3D models for undergraduate learning. Society for Neuroscience Meeting, San Diego, CA. 024.13SU [Presenter] Wilson CH, Clark M, Innovations in Recruitment and Retention for the Team-Based Learning Collaborative (TBLC). TBLC Annual Meeting', Portland OR. #401 ('meeting canceled due to Covid-19). [Presenter] Clark M, Dolowitz A, Leonard B, McCarter R, Moscova M, Wilson CH, Winter L. Essentials for Moving Team-Based Learning Online: Low-cost, no-cost and widely available tools to help you transform your courses. TBLC Annual Meeting (virtual). [Presenter] munity Educational Resource Development and Innovations Reddy K, Densmore A, Wilson CH. 3D-printed knee joint models to teach high school students about knee injury prevention. Chapman University, Orange CA gs and Newsletters- Guest Posts <				

ym.com/news/news.asp?id=514059#Challenges%20of%20Online%20Application%20Exercises 4. Wilson CH. It takes a Village: Launching a Neuroscience Minor During a Pandemic. Faculty for Undergraduate Neuroscience Newsletter. November 2021. URL: <u>https://www.funfaculty.org/blog_home.asp?Display=32&fbclid=IwAR3dfDahCdDKiJ61d1rgR_T5mKwNN6</u> wbRENdTtlfGeqCG7hhdJTBiErZV48