Curriculum Vitae

Last Updated: 2023/02/16

PERSONAL DATA

Name: Brian E. Chapman, Ph.D.
Associate Professor of Health Data Science and Biostatistics
Associate Professor of Health Economics, Systems and Policy (secondary)
O'Donnell School of Public Health
University of Texas Southwestern Medical Center

Citizenship: United States of America, Commonwealth of Australia

GitHub: https://github.com/chapmanbe

Website: https://chapmanbe.github.io/

EDUCATION

Years	Degree	Institution (Area of Study)
1990 — 1992	B.S.	University of Utah (Electrical Engineering) Salt Lake City, UT
1992 — 1994	M.S.	University of Wisconsin–Madison (Electrical Engineering) Madison, WI
1994 — 1998	Ph.D.	University of Utah (Medical Informatics) Salt Lake City, UT

PROFESSIONAL EXPERIENCE

Full-Time Positions

1990 — 1992	Undergraduate Research Assistant, University of Utah, Salt Lake City, UT
1992 — 1993	Research Assistant, University of Wisconsin–Madison, Madison, WI
1993 — 1994	Air Force Office of Scientific Research Fellow, University of Wisconsin–Madison, Madison, WI
1994 — 1998	Research Assistant, University of Utah, Salt Lake City, UT
1998 — 2000	Postdoctoral Fellow, University of Utah, Salt Lake City, UT
2000 — 2006	Research Assistant Professor, Department of Radiology, University of Pittsburgh, Pittsburgh, PA
2002 — 2010	Core Faculty, Biomedical Informatics Training Program, University of Pittsburgh, Pittsburgh, PA
2006 — 2010	Assistant Professor, Department of Biomedical Informatics, University of Pittsburgh, Pittsburgh, PA
2010 — 2013	Associate Professor, University of California, San Diego, La Jolla, CA

2013 — 2019	Research Associate Professor, Departments of Biomedical Informatics and Radiology, University of Utah
2020 — 2023	Associate Professor, Department of Medical Education, University of Melbourne
2023 — Present	Associate Professor, Computing and Information Systems, University of Melbourne

Editorial Experience

2007 — 2013	Editorial Board for International Journal of Medical Engineering and Informatics

Reviewer Experience

Reviewer for 2012 AMIA Clinical Research Summit

Reviewer for American Journal of Roentgenology

Reviewer for Annual Fall Meeting American Medical Informatics Association

Reviewer for BMC Neurology

Reviewer for Computer Methods and Programs in Biomedicine

Reviewer for Computers and Biomedical Research

Reviewer for IEEE Transactions on Medical Imaging

Reviewer for International Journal of Medical Informatics

Reviewer for International Society for Magnetic Resonance in Medicine

Reviewer for Journal of Biomedical Informatics

Reviewer for Journal of Magnetic Resonance Imaging

Reviewer for Medical Physics

Reviewer for Methods of Information in Medicine

Reviewer for BMC Medical Informatics and Decision Making

SCHOLASTIC HONORS

1990	Tau Beta Pi, University of Utah
1992	Phi Kappa Phi, University of Utah
1995	Best Student Presentation, Medical Imaging Research Laboratory, University of Utah

1996	Best Student Presentation, Medical Imaging Research Laboratory, University of Utah
2001	Best Poster Runner-up, SPIE Medical Imaging
2010 — 2011	Nominated as Distinguished Mentor, University of Pittsburgh
2017	Outstanding Educator of Health Sciences Graduate Students, University of Utah
2018	Elected Fellow of the Academy of Health Science Educators

ADMINISTRATIVE EXPERIENCE

Administrative Duties

2009 — 2010	Member, Strategic Planning Committee, Department of Biomedical Informatics, University of Pittsburgh. Advisory committee to the Department Chair.
2010 — 2012	Associate graduate training program director, Division of Biomedical Informatics, University of California, San Diego
2016 — 2019	Co-director, DeCART Summer School, University of Utah. NIH-funded summer training in health data science (~100 students per year). 5 week program funded by our NIH R25 grant. We had around 120 participate from around the United States, as well as visiting students from Korea. The course consisted of 11 classes taught by 17 instructors.
2017	Chair, Department of Biomedical Informatics Education Committee, University of Utah. Responsible for leading the faculty in modifying, launching, and refining the curriculum for the PhD program (30 students) and the MS program (60 students), including developing materials for an online version of the MS.
2016 — 2018	Director, Data Science Working Group, Department of Biomedical Informatics, University of Utah. Coordinated students and faculty in weekly WG meetings.

Professional Organization & Scientific Activities

2009 — Present	Member, Society for Industrial and Applied Mathematics, Activity Group on Life Sciences
2009 — Present	Member, Society for Industrial and Applied Mathematics, Activity Group on Imaging Science
2010 — 2019	Member, American Medical Informatics Association, Biomedical Imaging Working Group
2011 — 2013	Advisory Board Member, American Medical Informatics Association, Biomedical Imaging Working Group
2012	Program Committee Member, Institute of Electrical and Electronics Engineers, Conference in Health Informatics, Imaging, and Systems Biology
2013	Program Committee Member, Institute of Electrical and Electronics Engineers, International Conference on Healthcare Informatics
2013	Program Committee Member, American Medical Informatics Association, Summit on Clinical Research Informatics
2017-2018	Program Chair, AMIA 2018 Informatics Educator's Forum

2022-2024	Member, Digital Health Advisory Group, Royal Australian College of Physicians

Grant Review Committee/Study Section

2012	VA HSR&D Review Panel

Symposium/Meeting Chair/Coordinator

2011	Principal Organizer, iDASH Imaging Informatics Workshop, San Diego, CA
2012	Principal Organizer, Biomedical Data Sharing: Ethical, Legal, and Policy Perspectives, San Diego, CA
2012	Principal Organizer, iDASH Imaging Informatics Workshop, San Diego, CA
2013	Principle Organizer, Southern California Medical Text Analysis and Visualization Workshop, San Diego, CA
2014	Summit on Mathematical Modeling in Health Sciences, Co-organizer (with Fred Adler, University of Utah), University of Utah Health Sciences, Salt Lake City, UT, USA

COMMUNITY ACTIVITIES

1997 — 1998	Volunteer, Boy Scouts of America, Scout Master
1998 — 2000	Volunteer, Boy Scouts of America, Varsity Scout Coach
2001 — 2003	Volunteer, Boy Scouts of America, Cub Scout Den Master
2002 — 2004	Board of Directors, Observatory Hill, Inc.
2002 — 2003	Volunteer, Slaughterhouse Gallery & Studios, Exhibitor, Lawrenceville, PA
2002	Volunteer, Indiana University of Pennsylvania, Exhibitor, Southwestern Pennsylvania Society for the Arts
2002	Volunteer, Box Heart Gallery, Exhibitor, Pittsburgh, PA
2003	Volunteer, Picturesque Photography Gifts & Gallery, Exhibitor, Lawrenceville, PA
2005	Volunteer, City of Lawrenceville, Pennsylvania, Exhibitor, Art all Night, Lawrenceville, PA
2005 — 2010	Volunteer, Boys & Girls Clubs of America, Photography Instructor, Sarah Heinz House
2007	Volunteer, 709 Penn Gallery, Solo Exhibitor, Reflections, Rotations, Symmetries, Pittsburgh, PA
2013 — 2014	Advisory Council, City Academy Charter School, Parent representative to school advisory council overseeing state Land Trust funds, wellness and safety programs, etc. Salt Lake City, UT

2014 — 2015	Program Committee Member, Artificial Intelligence In Medicine Inc.
2014 — 2018	President, City Academy Charter School, Advisory Council. Responsible for running the school's advisory council, Salt Lake City, UT
2014 – 2018	Board of Trustees, City Academy Charter School, Salt Lake City, UT

UNIVERSITY COMMUNITY ACTIVITIES

2021 — 2022	Committee Member, MD Redesign Committee, Department of Medical Education, University of Melbourne
2021 — present	Academic Lead, Digital Health Education Revamp, Computing and Information Systems, University of Melbourne
2021—2024	Education Committee, Computing and Information Systems, University of Melbourne

SERVICE AT PREVIOUS INSTITUTIONS

Health Sciences Level

University of Utah

2014 — 2016	Committee Member, Center for Clinical Translational Science, Curriculum Committee for MSCI program
2014 — 2019	Member, Academy of Health Science Educators
2017 — 2018	Health Systems Science Workgroup to identify education collaboration opportunities among the "dry lab" graduate programs in the health sciences.

Department Level

1991 — 1992	Member, Electrical and Computer Engineering, Oak Ridge National Laboratory, Engineering Clinic
1994 — 1998	Student Representative, Radiology, Imaging Research Laboratory
1999	Student Representative, Radiology, Faculty Promotion and Retention Committee
2000 — 2019	Consultant, Radiology, Provide statistical and evaluation services to Dr. Dennis Parker, director of Utah Center for Advanced Imaging Research
2014 — 2015	Member, Population Health Sciences, Curriculum Committee. Develop curriculum for new Population Health Sciences department
2015 — 2019	Member, Biomedical Informatics, Professional Masters Degree Committee
2015 — 2019	Chair, Utah Center for Advanced Imaging Research, Research Education Committee. Responsible for coordinating educational efforts in UCAIR
2015 — 2019	Member, Radiology, Informatics and Information Technology Committee

2016 — 2019	Member, Biomedical Informatics, Education Committee
2017 – 2019	Member, Biomedical Informatics, Curriculum Committee
2017	Chair, Biomedical Informatics, Education Committee
2017	Member, Resident Selection Committee, Department of Radiology and Imaging Sciences

Programs, Centers & Institutes

2013 — 2019	Affiliate Faculty, Center for Quantitative Biology, I worked with the director, Fred Adler, to increase collaboration between the Center and the Health Sciences.
2001 — 2010	Member, University of Pittsburgh, Admissions Committee, Department of Biomedical Informatics
2001 — 2002	Member, University of Pittsburgh, Faculty Search Committee, Imaging Research Division, Department of Radiology
2003 — 2005	Member, University of Pittsburgh, Radiology Research Seminar
2006 — 2007	Member, University of Pittsburgh, Department of Biomedical Informatics Art Committee
2006 — 2010	Chair, University of Pittsburgh, Computing Interest Group, Department of Biomedical Informatics, Monthly presentation/discussion on computing related issues
2007 — 2008	Chair, University of Pittsburgh, Imaging Informatics Faculty Search Committee
2008 — 2010	Member, University of Pittsburgh, Curriculum Committee, Department of Biomedical Informatics
2009 — 2010	Member, University of Pittsburgh, Strategic Planning Committee, Department of Biomedical Informatics
2011 — 2012	Member, University of California, San Diego, Faculty Search Committee, Division of Biomedical Informatics
2011 — 2012	Associate Director, University of California, San Diego, SABER, Coordinated all aspects of the NLM funded graduate education program for biomedical informatics, Designed curriculum, Coordinated with three participating degree programs (Computer Science and Engineering, Bioinformatics and Systems Biology, and Clinical Research), Worked with admissions, research training, and curriculum committees
2011 — 2013	Member, University of California, San Diego, San Diego Biomedical Informatics Education & Research (SABER) Student Admissions Committee
2013	Consultant, University of California, San Diego Extension, Provide evaluation of Health Information Technology certificate program

CURRENT MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Association for Computing Machines

Society for Industrial and Applied Mathematics

American Association for the Advancement of Science

FUNDING

Past Grants

12/01/2021 — 08/30/2025
Fertidoc: Development of clinician-led digital tools to improve diagnosis and treatment in paediatric adolescent and young adult oncofertility patients throughout the ANZCO Clinical Trials Network
Principal Investigator (CI-A): Yasmin Jayasinghe
Australian Medical Research Future Fund (MRFF)
Direct Costs: 2,999,970
Role: Co-investigator

09/30/2016 — 06/30-2019
Curriculum in Biomedical Big Data: Skill Development and Hands-On Training
Principal Investigators: Brian E. Chapman, Matthew Samore
Direct Costs: $444,000 Total Costs: $479,520
National Institutes of Health
Role: Co-Principal Investigator

08/17/16 — 07/31/20
High Resolution MRI for Carotid Disease
Principal Investigator: Dennis Parker
Direct Costs: $1,800,000 Total Costs: $2,682,000
National Institutes of Health
Role: Co Investigator

07/01/2018— 06/30/2019
Basic Data Science for Basic Scientists
Principle Investigator: Wendy W. Chapman
Total Costs: $99,997
National Library of Medicine
Role: Co Investigator

07/01/97 — 06/30/02
Rule-Based CAD of Digitized Mammograms
R01 CA77850
Principal Investigator: David Gur
National Cancer Institute
Role: Co-Investigator

09/01/98 — 01/31/01
Non-ROC Measures for Evaluating Image Compression
R01 LM06236
Principal Investigator: Walter Good
National Library of Medicine
Role: Co-Investigator

02/01/00 — 01/31/04
Investigations of Multi-View CAD for Mammography
R01 CA80836
Principal Investigator: Walter Good
National Cancer Institute
Role: Co-Investigator

10/01/00 — 09/30/02
Computerized Measure of Breast Composition with Application to Computer Aided Detection
IMAG00-000362
Principal Investigator: Bin Wang
Susan G. Komen Breast Cancer Foundation
Role: Co-Investigator

12/01/02 — 11/30/05
High Resolution Cervical Carotid Imaging with MR
NIH-NHLBI (Subcontract to University of Utah)
Principal Investigator: Brian E. Chapman
Direct Costs: $81,965 Total Costs: $81,965
National Heart, Lung, and Blood Institute
Role: Principal Investigator

04/01/04 — 03/31/07
Multispectral MR Analysis of Hepatocellular Carcinoma
NIH-NCI 1 R21 CA095759-01A2
Principal Investigator: Brian E. Chapman
Direct Costs: $326,889 Total Costs: $326,889
National Cancer Institute
Role: Principal Investigator

03/01/06 — 02/28/10
High Resolution Cervical Carotid Imaging with MR
NIH-NHLBI (Subcontract to University of Utah)
Principal Investigator: Brian E. Chapman
Direct Costs: $129,632 Total Costs: $129,632
National Heart, Lung, and Blood Institute
Role: Principal Investigator

03/01/06 — 02/28/10
High Resolution Cervical Carotid Imaging with MR
NIH-NHLBI (Subcontract to University of Utah)
Direct Costs: $129,632 Total Costs: $129,632
National Heart, Lung, and Blood Institute
Role: Co-Investigator

03/01/08 — 02/28/11
Automated Detection of Thromboembolic Disease in CT Images
NIH-NHLBI R01 HL087119
Direct Costs: $887,739 Total Costs: $887,739
National Heart, Lung, and Blood Institute
Role: Co-Investigator

03/01/08 — 02/28/11
Automated Detection of Thromboembolic Disease in CT Images
NIH-NHLBI R01 HL087119
Principal Investigator: Brian E. Chapman
Direct Costs: $887,739 Total Costs: $887,739
National Heart, Lung, and Blood Institute
Role: Principal Investigator

09/01/10 — 06/30/13
Integrating Data for Analysis, Anonymization and Sharing
NIH U54HL108460
Principal Investigator: Ohno-Machado
Direct Costs: $16,760,000 Total Costs: $16,760,000
National Institutes of Health
Role: Co-Investigator

10/01/12 — 09/30/13
QUERI: NLP for Carotid Stenosis
VA RRP 12-185
Principal Investigator: W Chapman
Direct Costs: $100,000 Total Costs: $100,000
U.S. Department of Veterans Affairs
Role: Co-Investigator

04/01/13 — 03/31/15
VA Hi2 Notes
Principal Investigator: Agha
Direct Costs: $1,000,000 Total Costs: $1,000,000
U.S. Department of Veterans Affairs
Role: Co-Investigator

07/01/17— 06/30/18
Development of Data Science Modules for Biomedical Informatics Education
Principal Investigator: Wendy W. Chapman
Total Costs: $99,264
National Library of Medicine
Role: Co Investigator

09/15/15 — 08/31/16
Interactive Ensemble clustering for mixed data with application to mood disorders
Principal Investigator: Brian E. Chapman
Direct Costs: $11,325 Total Costs: $16,874
National Science Foundation (NSF)
Role: Principal Investigator

TEACHING RESPONSIBILITIES/ASSIGNMENTS

Courses Directed

1999	Instructor, Advanced Magnetic Resonance Imaging. University of Utah. Co-taught with Andy Alexander and Dennis Parker.30 students.
2002	Instructor, Information in Radiological Imaging, University of Pittsburgh, Biomedical Informatics. 3 credit hours. 12 students. Course surveying the nature of information in medical imaging.
2005 — 2009	Instructor, Problem Oriented Programming with Python, University of Pittsburgh, Biomedical Informatics. 3 credit hours. 15-25 students. Course introducing students without technical background to principles of programming.
2007 — 2008	Instructor, Introduction to Research in Biomedical Informatics, University of Pittsburgh, Biomedical Informatics. 3 credit hours. 15-25 students. Course introducing students to methods (e.g., study design) and issues (such as ethics) related to conducting research in biomedical informatics.
2009	Instructor, Introduction to Processing and Visualizing Biomedical Data with Python, University of Pittsburgh, Biomedical Informatics. 3 credit hours. 22 students. Review of a variety of mathematical and visualization techniques relevant to biomedical informatics including: linear algebra, curve fitting, image processing, Fourier analysis.
2009	Instructor, Mathematical Foundations of Biomedical Informatics, 3 credit hours. University of Pittsburgh. 18 students. Biomedical Informatics. A survey course of topics from discrete mathematics, calculus, linear algebra, and approximation theory.
2010	Instructor, Python for Biomedical informatics, 3 credit hours. University of Pittsburgh, Biomedical Informatics. 25 students. A second semester programming course emphasizing agile development principles with applications drawn from bioinformatics.
2011 — 2012	Organizer/Instructor, MED 264: Principles of Biomedical Informatics, 3 credit hours, University of California, San Diego, Biomedical Informatics. 18 students. A one-quarter introduction to the domain of biomedical informatics.
2012	Organizer/Instructor, Biomedical Informatics Boot Camp, University of California, San Diego, Biomedical Informatics. Two-week review of foundations for graduate studies in biomedical informatics. I was the course organizer and taught a four-day course on introduction to computer programming. 6 students.
2014	Instructor, BMI 6950 (3): Special Topics, 11 SCH, 7 students, University of Utah, Biomedical Informatics. Practicum course for Midvale Clinic EHR
2014	Primary Instructor, MDCRC 6521 (1): Computer Programming for Biomedical Researchers, 3 credit hours, 81 SCH, 27 students, University of Utah, Ctr Clinical & Translational Sci
2014	Instructor, BMI 6950 (3): Special Topics, 2 SCH, 1 student, University of Utah, Biomedical Informatics. Practicum class for building EHR at Midvale Clinic. Taught with Kathy Sward and Wendy Chapman.
2014	Primary Instructor, BMI 7010 (3): Journal Club, 7 SCH, 7 students, University of Utah, Biomedical Informatics

2014	Instructor, BMI 6950 (3): Special Topics, 5 SCH, 3 students, University of Utah, Biomedical Informatics. Practicum course for Midvale Clinic EHR. Taught with Kathy Sward and Wendy Chapman
2014	Instructor, BMI 7010 (3): Journal Club, 1 credit hour, 7 SCH, 7 students, University of Utah, Biomedical Informatics. Journal Club for visualization in biomedical informatics. Co-taught with Karen Eilbeck
2015	Primary Instructor, MDCRC 6521 (1): Computer Programming for Biomedical Researchers, 26 SCH, 12 students, University of Utah, Ctr Clinical & Translational Sci
2016	Primary Instructor, MDCRC 652 (1): Computer Programming for Biomedical Researchers, 0 SCH, 2 students, University of Utah, Ctr Clinical & Translational Sci
2016	Primary Instructor, BMI 6950 (8): Special Topics, 3 SCH, 1 student, University of Utah, Biomedical Informatics
2016	Primary Instructor, MDCRC 6521 (1): Computer Programming for Biomedical Researchers, 3 credit hours, 12 SCH, 4 students, University of Utah, Ctr Clinical & Translational Sci
2016	Primary Instructor, BMI 6950 (6): Special Topics, 3 SCH, 1 student, University of Utah, Biomedical Informatics
2016	Primary Instructor, BMI 6950 (6): Computer Programming for Biomedical Researchers, 0 SCH, 2 students, University of Utah, Biomedical Informatics
2016	Primary Instructor, BMI 6240 (1): Imaging Informatics, 2 SCH, 2 students, University of Utah, Biomedical Informatics
2016	Course Director, University of Utah Data Science for Health Summer School. 5 week course. Consisting of two formal, four hours per day two week courses (biomedical data science bootcamp BMI 7051/ NLP for Biomedical Data BMI 7052) and one informal three-day course (Time Series analysis). The Bootcamp averaged between 35-40 students per day, the NLP and time series courses averaged around 20-25 students per day.
2016	BMI 6950/MDCRC 6521:, Computational and Mathematical Foundations of Biomedical Informatics, 3 credit hours, 15 students.
2017	Co-Director, DeCART Summer School. This was a 5 week program funded by our NIH R25 grant. We had around 120 participate from around the United States, as well as visiting students from Korea. The course consisted of 11 classes taught by 17 instructors.
2017	Instructor, DeCART Biomedical Data Science Boot Camp, Part 1. Approximately 50 students participated
2017	Instructor, DeCART Biomedical Data Science Boot Camp, Part 2. Approximately 50 students participated
2017	Primary Instructor, BMI 7052 (1): Data Science II, 1 SCH, 1 student, University of Utah, Biomedical Informatics
2017	Primary Instructor, BMI 7051 (1): Data Science I, 1 SCH, 1 student, University of Utah, Biomedical Informatics

2017	Primary Instructor, BMI 6018: Computer Programming for Biomedical Scientists, 3 credit hours, 57 students.
2017	Co-Instructor, BMI 6203: Clinical Database Design, 2 credit hours, 42 students.
2018	Co-Instructor, BE/ECE 7310: Advanced Magnetic Resonance Imaging, 3 credit hours. 10 students
2018	Instructor, DeCART Biomedical Data Science Boot Camp, Part 1. Approximately 60 students participated
2018	Instructor, DeCART Biomedical Data Science Boot Camp, Part 2. Approximately 60 students participated
2018	Instructor, DeCART Advanced Python: Introduction to Debugging and Linear Algebra. Approximately 25 students participated.
2018	Primary Instructor, BMI 6018: Introduction to Programming for Biomedical Data Science, 3 credit hours. 45 students
2018	Primary Instructor, BMI 6950: Programming Fundamentals for Biomedical Informatics, 3 credit hours. 8 students
2018	Co-Instructor, BMI 6203: Clinical Database Design, 2 credit hours, 34 students.
2019	Instructor, DeCART Biomedical Data Science Boot Camp, Part 1. Approximately 30 students participated
2019	Instructor, DeCART Biomedical Data Science Boot Camp, Part 2. Approximately 30 students participated
2019	Co-Instructor (with John Dallon), DeCART Introduction to Linear Algebra for Data Science. Approximately 20 students participated.
2020	Instructor, Introduction to e-Health and Biomedical Informatics (Term 1). University of Melbourne. Approximately 70 students
2020	Instructor, Introduction to e-Health and Biomedical Informatics (Winter Term). University of Melbourne. Approximately 70 students
2021	Subject coordinator, Digital Transformation of Health (Term 1). University of Melbourne. 3 credit hour equivalent. Approximately 50 students.
2021	Subject coordinator, Digital Transformation of Health (winter term). University of Melbourne. 3 credit hour equivalent. Approximately 80 students.
2022	Subject coordinator, Digital Transformation of Health (Term 1). University of Melbourne. 3 credit hour equivalent. Approximately 30 students.
2022	Subject coordinator, Digital Transformation of Health (winter term). University of Melbourne. 3 credit hour equivalent. Approximately 50 students.
2023	Subject coordinator, Digital Transformation of Health (Term 1). University of Melbourne. 3 credit hour equivalent. Approximately 80 students.

2023	Subject coordinator, Digital Transformation of Health (Winter term). University of Melbourne. 3 credit hour equivalent. Approximately 120 students
2023	Subject coordinator, Machine Learning Applications for Health (Term 2). University of Melbourne. 3 credit hour equivalent. Approximately 70 students
2024	Subject coordinator, Digital Transformation of Health (Semester 1). University of Melbourne. 3 credit hour equivalent. Approximately 120 students
2024	Subject coordinator, Digital Transformation of Health (Winter term). University of Melbourne. 3 credit hour equivalent. Approximately 180 students
2024	Subject coordinator, Machine Learning Applications for Health (Term 2). University of Melbourne. 3 credit hour equivalent. Approximately 150 students

Course Lectures

1993	Instructor, Sophomore Circuits Lab, University of Wisconsin–Madison, Electrical Engineering
1999	Instructor, RDLGY: Advanced Magnetic Resonance Imaging, University of Utah, Radiology. Cross-listed with electrical engineering and bioengineering.
1999	Instructor, BMI: Medical Informatics Seminar, University of Utah, Biomedical Informatics

Trainee Supervision

PhD/Doctorate

2004 — 2005	Post Doctoral Advisor, Huadong Wu, University of Pittsburgh. *Trainee's Current Career Activities:* Principal Consultant, Robotics Automation Technical Services LLC, Grand Rapids, MI
2008 — 2013	Dissertation Advisor, Holly Perri Berty, University of Pittsburgh, PhD/Doctorate Committee. Department of Biomedical Informatics. *Trainee's Current Career Activities:* primary caregiver.
2010 — 2011	Post Doctoral Advisor, Xiaofei Song, University of California, San Diego. *Trainee's Current Career Activities:* Wireless systems engineer, Amazon, San Diego, CA
2012 — 2013	Post Doctoral Advisor, Ali Zifan, University of California, San Diego. *Trainee's Current Career Activities:* Assistant Professor of Medicine, UC San Diego.

2014	Advisor/Mentor, Wei Liu, University of Utah. Postdoctoral Advisor *Trainee's Current Career Activities:* Research Scientist at Exxon Mobile
2016 – 2018	Co-chair, Cameron Waller, University of Utah, PhD/Doctorate Committee, Department of Biochemistry. *Trainee's Current Career Activities:* Associate, Mayo Clinic, Rochester, MN.

Masters

2001 — 2003	Chair, Christina Lee, University of Pittsburgh, Masters Committee. Masters of Science, Department of Bioengineering. *Trainee's Current Career Activities:* U.S. Army Institute of Surgical Research
2014 — 2015	Advisor/Mentor, Stuart Schulthies, University of Utah. Advisor for MS project in Statistics *Trainee's Current Career Activities:* Senior Vice President, Underwriting, Upbound Group, Draper, UT
2015 — 2016	Advisor/Mentor, Mohan Manchala, University of Utah. Mentor for MS project in Computer Science. *Trainee's Current Career Activities:*Software engineer, Meta, Menlo, CA.
2015 — 2016	Supervisor, Seth Russell, University of Utah. Mentor for MS project in Biomedical Informatics. *Trainee's Current Career Activities:* Senior Analyst / Research Instructor, University of Colorado Anschutz Medical Campus
2021	Supervisor, Jose Corado, University of Melbourne. Mentor for MS project in Information Systems. *Trainee's Current Career Activities:* Senior Business Analyst, Australian Unity, Melbourne, VIC, AU
2023—2024	Sterre de Grefte, KU Leuven, Belgium. Mentor/daily supervisor for MS project in Computer Science. LLMs for cancer patient question answering. *Trainee's Current Career Activities:* Software engineer, Bluecrux, Brussels, BE
2024	Maolin He, University of Melbourne. Mentor for MS project in Masters of Information Technology. Optimal vector stores for RAG-based biomedical question answering systems. *Trainee's Current Career Activities:* Applying to PhD programs.
2024	Edward Liu, University of Melbourne. Mentor for MS project in Masters of Data Science. Novel similarity measures for RAG-based biomedical question answering systems. *Trainee's Current Career Activities:* Data scientist, SEEK, Melbourne, VIC, AU
2024	Hao Xu, University of Melbourne. Mentor for MS project in Masters of Information Technology. Automated segmentation of aortic dissections using deep learning. *Trainee's Current Career Activities:* PhD student, Deakin University, Burwood, VIC, AU

2024	Zixin Hao, University of Melbourne. Mentor for MS project in Masters of Information Technology. Improved segmentation of renal tumors in abdominal CT images. *Trainee's Current Career Activities:* Software engineer, Inform Ag, Mildura, VIC, AU

Medical Student

2006 — 2007	Supervisor, Emily Spangler, University of Pittsburgh. School of Medicine
2006 — 2009	Supervisor, Katherin Peperzak, University of Pittsburgh. School of Medicine
2008 — 2011	Supervisor, Sean Lee, University of Pittsburgh. School of Medicine
2022	Supervisor, Andrew Xu, University of Melbourne. MD3 research project
2022	Supervisor, Luke Newbegin, University of Melbourne. MD3 research project.
2023	Supervisor, Aya Hammed, University of York

Graduate Student Committees

2000	Member, Caroline Hutchins, University of Utah, Masters Committee. Masters of Statistics, Department of Mathematics
2005 — 2006	Member, Pinaki Mitra, University of Pittsburgh, PhD/Doctorate Committee. Center for Biomedical Informatics
2007 — 2009	Member, Regina Irwin, University of Pittsburgh, PhD/Doctorate Committee. Department of Biomedical Informatics
2007	Comprehensive Exam Committee Member, Jeannie Irwin, University of Pittsburgh, PhD/Doctorate Committee. Department of Biomedical Informatics
2008 — 2011	Member, Gaurav Shukla, University of Pittsburgh, PhD/Doctorate Committee. Department of Bioengineering
2008 — 2011	Member, Judy Shum, Carnegie Mellon University, PhD/Doctorate Committee. Department of Bioengineering
2009 — 2015	Dissertation Advisor, Rich Wilson, University of Pittsburgh, PhD/Doctorate Committee. Department of Biomedical Informatics
2009 — 2012	Member, Jordan Hulet, University of Utah, PhD/Doctorate Committee. Department of Biomedical Informatics
2010	Comprehensive Exam Committee Member, Rich Wilson, University of Pittsburgh, PhD/Doctorate Committee. Department of Biomedical Informatics
2014 — 2016	Member, Keith Simmon, University of Utah, PhD/Doctorate Committee, Department of Biomedical Informatics
2014 — 2015	Member, Alex Mcharia, University of Utah, Masters Committee, Department of Biomedical Informatics

2014— 2017	Member, Shelley MacNeil, University of Utah, PhD/Doctorate Committee, Department of Oncological Science
2016	Member, Paris Vail, University of Utah, Masters Committee, Deparatment of Biomedical Informatics
2016 – 2018	Member, Cameron Waller, University of Utah, PhD/Doctorate Committee, Department of Biochemistry.
2024—-present	Member, Liuliu Chen, University of Melbourne, PhD Committee, School of Computing and Information Systems.

Educational Lectures

Didactic Lectures

2006 — 2010	Department Colloquium, Organize Speakers for Weekly Lecture Series, Department of Biomedical Informatics, University of Pittsburgh, Pittsburgh, PA

Department/Division Conferences

2009 — 2010	Journal Club Coordinator, First Year Students, Department of Biomedical Informatics, University of Pittsburgh, Pittsburgh, PA

PEER-REVIEWED JOURNAL ARTICLES

1 Zhang YS, Scharer JE, **Chapman BE** (1993). Electron Cyclotron Wave Scattering by a Probe-Launched Ion Acoustic Wave. *Phys Plasmas*, *5*, 3887-3892.

2 **Chapman BE**, Sanderson AR, Goodrich KC, Alexander AL, Blatter DD, Parker DL (1997). Observer performance methodologies for evaluating blood vessel visibility in MR angiograms using accurate geometric registration to high resolution x-ray angiograms. *Magn Reson Med*, *37*(4), 519-29.

3 Alexander AL, Buswell HR, Sun Y, **Chapman BE**, Tsuruda JS, Parker DL (1998). Intracranial black-blood MR angiography with high-resolution 3D fast spin echo. *Magn Reson Med*, *40*(2), 298-310.

4 **Chapman BE**, Goodrich CK, Alexander AL, Blatter DD, Parker DL (1999). Evaluation of measures of technical image quality for intracranial magnetic resonance angiography. *Comput Biomed Res*, *32*(6), 530-56.

5 Alexander AL, **Chapman BE**, Tsuruda JS, Parker DL (2000). A median filter for 3D FAST spin echo black blood images of cerebral vessels. *Magn Reson Med*, *43*(2), 310-3.

6 Parker DL, **Chapman BE**, Roberts JA, Alexander AL, Tsuruda JS (2000). Enhanced image detail using continuity in the MIP Z-buffer: applications to magnetic resonance angiography. *J Magn Reson Imaging*, *11*(4), 378-88.

7 Hadley JR, **Chapman BE**, Roberts JA, Chapman DC, Goodrich KC, Buswell HR, Alexander AL, Tsuruda JS, Parker DL (2000). A three-coil comparison for MR angiography. *J Magn Reson Imaging*, *11*(4), 458-68.

8 Chapman WW, Fiszman M, Frederick PR, **Chapman BE**, Haug PJ (2001). Quantifying the characteristics of unambiguous chest radiography reports in the context of pneumonia. *Acad Radiol*, *8*(1), 57-66.

9 Chapman WW, Fizman M, **Chapman BE**, Haug PJ (2001). A comparison of classification algorithms to automatically identify chest X-ray reports that support pneumonia. *J Biomed Inform*, *34*(1), 4-14.

10 Christian ME, Davidson HC, Wiggins RH 3rd, Berges G, Cannon G, Jackson G, **Chapman B**, Harnsberger HR (2001). Digital processing of radiographic images from PACS to publishing. *J Digit Imaging*, *14*(1), 14-7.

11 Wang XH, Good WF, **Chapman BE**, Chang YH, Poller WR, Chang TS, Hardesty LA (2003). Automated assessment of the composition of breast tissue revealed on tissue-thickness-corrected mammography. *AJR Am J Roentgenol*, *180*(1), 257-62.

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44	2012	Ashfaq S, Gentili A, Chapman W, **Chapman B**. A Preliminary Approach for Creating a Semi-synthetic Multimodal Clinical Data Set from a Publicly Available Image Repository, AMIA 2012 Annual Symposium, Chicago, IL
45	2012	Gentili A, **Chapman BE**. Use of pyConText to Assist in Auditing for Chest Biopsy Complications, RSNA 2012, Chicago, IL
46	2012	**Chapman BE**, Wong M, Farcas C, Ohno-Machado L. iDASH and Imaging: Incorporating Radiological Data into an On-line Environment for Data Sharing and Analysis, Educational Exhibit, RSNA 2012, Chicago, IL
47	2012	**Chapman BE**. Data Repositories at iDASH, iDASH Imaging Informatics Workshop, San Diego, CA

48	2013	Zifan A, Ashfaq S, **Chapman BE**. Automatic Ventricle Chamber Segmentation Using a Regression Neural Network Initialization Based Active Shape Model, 2013 AMIA CRI Summit, San Francisco, CA
49	2013	Zifan, A, Ashfaq S, **Chapman BE**. Toward the Non-Invasive Detection of Pulmonary Hypertension using Discriminative Predictors, 2013 AMIA CRI Summit, San Francisco, CA
50	2013	**Chapman BE**, Chen J, Miyakoshi A, Chapman WW, Gentili A. Measuring How Perceived Meanings of Uncertainty Cues Differs with and Without Sentence-Level Context in Radiology Reports. RSNA 2013, Chicago, IL
51	2013	**Chapman BE**, Gentili A, Chen J, Miyakoshi A, Chapman W. Measuring Expressions of Uncertainty in Radiology Texts for Natural Language Processing Applications. RSNA 2013, Chicago, IL
52	2013	Gentili A, **Chapman BE**. Use of Natural Language Processing to Classify Radiology Reports Containing Description of the Abdominal Aorta. RSNA 2013, Chicago, IL
53	2013	Zifan A, **Chapman BE**. Rapid Medical Imaging Retrieval Using Lung Vasculature Traits. RSNA 2013, Chicago, IL
54	2015	**Chapman BE**. The Good, The Bad, and The Ugly: Using Natural Language Processing to Understand Information Content in Radiology Reports. RSNA 2015
55	2015	**Chapman BE**, Gentili A, Schulthies SL, Heilbrun ME. Lexical Disparities between Reports Authored by Residents and Reports Authored by Attending Radiologists Using Natural Language Processing. RSNA 2015, Chicago, IL
56	2016	Chapman BE, Brown L, Roberts JA, Fletcher T. 3D Shape Characterization of Vascular Remodeling in Pulmonary Arterial Hypertension As Depicted in Volumetric Ct Images. 2016 SIAM Conference on Imaging Science, Albuquerque, NM, USA. May 2016
57	2018	**Chapman BE.** Data science education, workforce development. Data Science Innovation at the Intersection of Biomedical Research and the Library. Bethesda, MD June 2018
58	2021	**Chapman BE**, Ziegenfuss DH. Getting Beyond the Memoir to an Autoethnography: Building on a Cancer Survivor Narrative Memoir. International Symposium on Autoethnography and Narrative. January 2021.
59	2021	**Chapman BE**. Autoethnography as Autodissection: Teaching Medical Informatics with a Personal Health Narrative. International Symposium on Autoethnography and Narrative. January 2021.

Invited/Visiting Professor Presentations

1	<u>International</u>	
2	2011	**Chapman BE**. iDASH and Images: Working Towards a Complete Framework for Sharing Medical Data, University of Edinburgh, Edinburgh, United Kingdom

3		
4	2017	Chapman WW and **Chapman BE.** Clinical NLP Master Class, Australian National University.
5	National	
6	2003	**Chapman BE**. Principles of Magnetic Resonance Imaging, SMRT Northeast Regional Conference, Pittsburgh, PA
7	2005	**Chapman BE**. Principles of Magnetic Resonance Angiography, Medrad Corporation, Pittsburgh, PA
8	2005	**Chapman BE**. Principles of Magnetic Resonance Angiography, SMRT Northeast Regional Conference, Pittsburgh, PA
9	2006	**Chapman BE**. Making Radiology Quantitative: Plato vs. Aristotle, University of Utah, Department of Radiology
10	2009	**Chapman BE**. Pythagoras, Plato and Eratosthenes: Greek Models for Imaging Informatics, Arizona State University, Department of Biomedical Informatics
11	2010	**Chapman BE**. Pythagoras, Plato and Eratosthenes: Greek Models for Imaging Informatics, Oregon Health Sciences University, Department of Medical Informatics
12	2010	**Chapman BE**. Eratosthenes and Medical Imaging Informatics, University of California, San Diego, Division of Biomedical Informatics, Department of Medicine
13	2011	**Chapman BE**. Image Sharing with iDASH: Disrupting Data Ownership to Facilitate Imaging Research, FDA, Division of Imaging and Applied Mathematics, Silver Spring, MD
14	2012	**Chapman BE**. The Varieties of Biomedical Data: the iDASH Experiment (and a Tribute to William James), University of Utah, Salt Lake City, UT
15	2012	**Chapman BE**. If Pythagoras were a Physician: Reflections on the Philosophy and Practice of Medical Informatics, Bioinformatics and Systems Biology Seminar, University of California, San Diego, La Jolla, CA
16	2012	**Chapman BE**. Informatics Perspectives on Medical Imaging, Biomedical Informatics Seminar, University of California, San Diego, La Jolla, CA
17	2014	**Chapman BE.** Biomedical Informatics and Rebellion, Introduction to Health Informatics, University of Arizona.
18	2016	**Brian E. Chapman.** "Can I Learn from Big Data?" Western Society of Pediatric Cardiology. Park City, UT
19	2017	Chapman WW and **Chapman BE.** Clinical Natural Language Processing. Georgia Biomedical Informatics Course.
20	2018	**Chapman BE**. Informatics and Biomedical Data Science Training at the University of Utah Incorporating Data Science Modules into Existing Informatics Courses. Biomedical Data Science Curriculum Initiative Working Group, Boston, MA (May 2018).

21	2018	**Chapman BE.** Biomedical Data Science Education at the University of Utah. Friends of the National Library of Medicine Conference. Bethesda, MD (June 2018).
22	2018	**Chapman BE.** Data Science Education in Biomedical Informatics. AMIA Informatics Educators Forum. New Orleans, LA (June 2018)
23	2018	**Chapman BE.** Teaching with JupyterHub. National Network of Libraries of Medicine. Salt Lake City, UT (November 2018)
24	2019	**Chapman BE.** From Radio Waves to Gamma Rays: A Spectral Analogy for Biomedical Data Science. Plenary Lecture, Informatics Day 2019. University of Pennsylvania (May 23, 2019)
25	2019	**Chapman BE.** Punk Informatics: Technology Evolutions and Empowerment of a Do-It-Yourself Health Professional. University of Melbourne (31 July 2019).
26	2022	**Chapman BE**. "Knowledge is Power; France is Bacon", Tackling medicine's paternalism problem. Plenary talk at Digital health Institute Summit. 22 February 2022, Melbourne, VIC, AU.
27	2022	**Chapman BE.** "Throw Some More Rights on the Barbie: A View from Down Under on Epistemic Rights and Informatics". March 2022. IDEAS Seminar Salt Lake City VA. Salt Lake City, UT, US
28	2023	**Chapman BE**. "The varieties of healthcare experience: Pluralism, informatics, and consumer empowerment". Keynote address at MedInfo 2023. Sydney, NSW, AU, July 2023.
29	2023	**Chapman BE.** "The Informatics Rebellion and the Patient Experience". Department of Biomedical Informatics, University of Pittsburgh, Pittsburgh, PA, August 24, 2023.
30	2023	**Chapman BE** and D'Alfonso S. "Artificial Intelligence for Cancer Care and Research" VCCC Alliance Conference. Melbourne, AU, September 11, 2023.
31	2023	**Chapman BE.** "Thinking About Thinking with AI". University of New Mexico, Albuquerque, NM, September 27, 2023.
32	2023	**Chapman BE.** "Sharing is Caring: A Patient Perspective". Royal Women's Hospital Grand Rounds, Melbourne, AU, October 4, 2023.
33	2023	**Chapman BE.** "A Very Brief History of Artificial Intelligence in Healthcare". Health Equity Matters Generative AI Forum. Melbourne, AU, October 12, 2023.

34	2023	**Chapman BE.** "Thinking with Artificial Intelligence: Experiences from Healthcare". Outcomes, Practice and Evidence Network. Melbourne, AU, October 25, 2023.
35	2023	**Chapman BE.** "Prometheus and the Patient Epistemic Rights and Epistemic Duties". MCBK 2023
36	2024	**Chapman BE.** "Artificial Intelligence in Medicine: Context and Controversies", Invited lecture for AI and Digital Ethics, University of Melbourne, May 16, 2024.
37	2024	**Chapman BE**. "Values, Metrics, and Impactful Medical Imaging Research", Oak Ridge National Laboratory, May 24, 2024.
38	2024	**Chapman BE.** "Pushing Against Ignorance: Medical Informatics, Artificial Intelligence, and the Quest to Improve Healthcare". Wake Forest University, May 30, 2024.
39	2024	**Chapman BE**. "The Journey of Digital Health to Date". Thoracic Society of Australia and New Zealand Education Hub, Melbourne, October 11, 2024
40	2024	**Chapman BE.** "Pushing Against Ignorance: A Personal Perspective on Information Technology and the Transformation of Healthcare." University of Tennessee, Memphis. November 1, 2024
41	2024	**Chapman BE**. "Pushing Against Ignorance: Technology and the Transformation of the Patient Experience" to be presented at THIS Space: Today's challenges in responsible data science and health-care innovation. Cambridge, UK. November 26, 2024.
42	2025	**Chapman BE.** "Artificial Intelligence in Medicine: Context and Controversies", Invited lecture for AI and Digital Ethics, University of Melbourne, April 30, 2025.