Curriculum Vitae

Last Updated: 2023/02/16

PERSONAL DATA

Name: Brian E. Chapman, Ph.D.

Associate Professor of Health and Biomedical Informatics

Department of Medical Education

Faculty of Medicine, Dentistry and Health Sciences

University of Melbourne

Citizenship: United States

EDUCATION

<u>Years</u>	<u>Degree</u>	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 Mel-

bourne

Editorial Experience

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

matics

Reviewer Experience

Reviewer for 2012 AMIA Clinical Research Summit

Reviewer for American Journal of Roentgenology

Reviewer for Annual Fall Meeting American Medical Informatics Associa-

tion

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
2010 — 2012	Associate graduate training program director, Division of Biomedical Informatics, University of California, San Diego
2016 — Present	Co-director, DeCART Summer School, University of Utah.
2017	Chair, Department of Biomedical Informatics Education Committee, University of Utah
2016 — 2018	Director, Data Science Working Group, Department of Biomedical Informatics, University of Utah

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 — Present	Member, American Medical Informatics Association, Biomedical Imaging Working Group
2011 — 20132013	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-Present	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 Health Sciences, Salt Lake City, UT, USA

COMMUNITY ACTIVITIES

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	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

<u>UNIVERSITY COMMUNITY ACTIVITIES</u>

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—present	Education Committee, Computing and Information Systems, University of Melbourne

SERVICE AT PREVIOUS INSTITUTIONS

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Health	ı Sciences	
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2014 — 2016	Committee Member, Center for Clinical Translational Science, Curriculum Committee for MSCI program
2014 — present	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 — Present	Consultant, Radiology, Provide statistical and evaluation services to Dr. Dennis Parker
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 (with Dev Chakroborty)
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 Current Grants

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

MRFF

Role: Co-investigator

Past Grants

09/30/2016 — 06/30-2019 (no cost continuation)

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

09/30/2016 —

Curriculum in Biomedical Big Data: Skill Development and Hands-On Train-

06/30-2019 (no cost continuation)

Principal Investigators: Brian E. Chapman, Matthew Samore

Direct Costs: \$444,000 Total Costs: \$479,520

National Institutes of Health Role: <u>Co-Principal Investigator</u>

09/30/2016 —

Curriculum in Biomedical Big Data: Skill Development and Hands-On Train-

06/30-2019 (no cost continuation)

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: Gur National Cancer Institute Role: <u>Co-Investigator</u>

09/01/98 — 01/31/01

Non-ROC Measures for Evaluating Image Compression

R01 LM06236

Principal Investigator: Good National Library of Medicine

Role: <u>Co-Investigator</u>

02/01/00 — Investigations of Multi-View CAD for Mammography 01/31/04 R01 CA80836 Principal Investigator: Good National Cancer Institute Role: Co-Investigator 10/01/00 — Computerized Measure of Breast Composition with Application to Computer Aided 09/30/02 Detection IMAG00-000362 Principal Investigator: 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 — Multispectral MR Analysis of Hepatocellular Carcinoma 03/31/07 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 — High Resolution Cervical Carotid Imaging with MR 02/28/10 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 — High Resolution Cervical Carotid Imaging with MR 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 — Integrating Data for Analysis, Anonymization and Sharing

06/30/13 NIH U54HL108460

Principal Investigator: Ohno-Machado

Direct Costs: \$16,760,000 Total Costs: \$16,760,000

National Institutes of Health Role: <u>Co-Investigator</u>

10/01/12 — OUERI: NLP for Carotid Stenosis

09/30/13 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 — VA Hi2 Notes

03/31/15 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 — Interactive Ensemble clustering for mixed data with application to mood disorders

08/31/16 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

2002 Instructor, Information in Radiological Imaging, University of Pittsburgh, Bio-

medical Informatics. Course surveying the nature of information in medical imag-

ing.

2005 — 2009	Instructor, Problem Oriented Programming with Python, University of Pittsburgh, Biomedical Informatics. Course introducing students without technical background to principles of programming.
2007 — 2008	Instructor, Introduction to Research in Biomedical Informatics, University of Pittsburgh, Biomedical Informatics. 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. 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, University of Pittsburgh, Biomedical Informatics. A survey course of topics from discrete mathematics, calculus, linear algebra, and approximation theory.
2010	Instructor, Python for Biomedical informatics, University of Pittsburgh, Biomedical Informatics. 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. 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.
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 695 (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. Approximately 50 students.
2021	Subject coordinator, Digital Transformation of Health (winter term). University of Melbourne. Approximately 80 students.
2022	Subject coordinator, Digital Transformation of Health (Term 1). University of Melbourne. Approximately 30 students.
2022	Subject coordinator, Digital Transformation of Health (winter term). University of Melbourne. Approximately 50 students.
2023	Subject coordinator, Digital Transformation of Health (Term 1). University of Melbourne. Approximately 80 students.
2023	Subject coordinator, Digital Transformation of Health (Winter term). University of Melbourne. (Approximately 120 students)
2023	Co-Instructor, Machine Learning Applications for Health (Term 2). University of Melbourne. (Approximately 70 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
2010 — 2011	Post Doctoral Advisor, Xiaofei Song, University of California, San Diego
2012 — 2013	Post Doctoral Advisor, Ali Zifan, University of California, San Diego
2014	Advisor/Mentor, Wei Liu, University of Utah. Postdoctoral Advisor <i>Trainee's Current Career Activities:</i> Research Scientist at Exxon Mobile
<u>Masters</u>	
2014 — 2015	Advisor/Mentor, Stuart Schulthies, University of Utah. Advisor for MS project in Statistics Trainee's Current Career Activities: Data Scientist
2015 — 2016	Advisor/Mentor, Mohan Manchala, University of Utah. Mentor for MS project in Computer Science
2015 — 2016	Supervisor, Seth Russell, University of Utah. Mentor for MS project in Biomedical Informatics Trainee's Current Career Activities: Software Engineer at Intermountain Healthcare
2021	Supervisor, Jose Corado, University of Melbourne. Mentor for MS project in Information Systems.
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.

Graduate Student Committees

2000	Member, Caroline Hutchins, University of Utah, Masters Committee. Masters of
	Statistics Department of Mathematics

2001 — 2003	Chair, Christina Lee, University of Pittsburgh, Masters Committee. Masters of Science, Department of Bioengineering
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 — 2013	Dissertation Advisor, Holly Perri Berty, University of Pittsburgh, PhD/Doctorate Committee. Department of Biomedical Informatics
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.
Educational Lectures	

Didactic Lectures

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

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 blackblood 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.
- 12. Parker DL, Goodrich KC, Roberts JA, **Chapman BE**, Jeong EK, Kim SE, Tsuruda JS, Katzman GL (2003). The need for phase-encoding flow compensation in high-resolution intracranial magnetic resonance angiography. *J Magn Reson Imaging*, *18*(1), 121-7.
- 13. Chapman WW, Cooper GF, Hanbury P, **Chapman BE**, Harrison LH, Wagner MM (2003). Creating a text classifier to detect radiology reports describing mediastinal findings associated with inhalational anthrax and other disorders. *J Am Med Inform Assoc*, *10*(5), 494-503.
- 14. Leader JK, Zheng B, Rogers RM, Sciurba FC, Perez A, **Chapman BE**, Patel S, Fuhrman CR, Gur D (2003). Automated lung segmentation in X-ray computed tomography: development and evaluation of a heuristic threshold-based scheme. *Acad Radiol*, *10*(11), 1224-36.
- 15. **Chapman BE**, Parker DL, Stapelton JO, Tsuruda JS, Mello-Thoms C, Hamilton B, Katzman GL, Moore K (2004). Diagnostic fidelity of the Z-buffer segmentation algorithm: preliminary assessment based on intracranial aneurysm detection. *J Biomed Inform*, *37*(1), 19-29.
- 16. **Chapman BE**, Stapelton JO, Parker DL (2004). Intracranial vessel segmentation from time-of-flight MRA using pre-processing of the MIP Z-buffer: accuracy of the ZBS algorithm. *Med Image Anal*, 8(2), 113-26.

- 17. Mello-Thoms C, **Chapman B** (2004). A preliminary report on the role of spatial frequency analysis in the perception of breast cancers missed at mammography screening. *Acad Radiol*, *II*(8), 894-908.
- 18. Wu H, Krasinskas AM, Tublin ME, **Chapman BE** (2005). Registering liver pathological images with prior in vivo CT/MRI data. *Med Image Comput Comput Assist Interv*, 8(Pt 1), 564-71.
- 19. **Chapman BE**, Yankelevitz DF, Henschke CI, Gur D (2005). Lung cancer screening: simulations of effects of imperfect detection on temporal dynamics. *Radiology*, 234(2), 582-90.
- 20. Christina Lee WC, Tublin ME, **Chapman BE** (2005). Registration of MR and CT images of the liver: comparison of voxel similarity and surface based registration algorithms. *Comput Methods Programs Biomed*, 78(2), 101-14.
- 21. **Chapman BE**, Parker DL (2005). 3D multi-scale vessel enhancement filtering based on curvature measurements: application to time-of-flight MRA. *Med Image Anal*, *9*(3), 191-208.
- 22. Zhang L, **Chapman BE**, Parker DL, Roberts JA, Guo J, Vemuri P, Moon SM, Noo F (2005). Automatic detection of three-dimensional vascular tree centerlines and bifurcations in high-resolution magnetic resonance angiography. *Invest Radiol*, 40(10), 661-71.
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2021	Chapman BE . Autoethnography as Autodissection: Teaching Medical Informatics with a Personal Health Narrative. International Symposium on Autoethnography and Narrative. January 2021.

<u>International</u>	
2011	Chapman BE . iDASH and Images: Working Towards a Complete Framework for Sharing Medical Data, University of Edinburgh, Edinburgh, United Kingdom
2017	Chapman WW and Chapman BE. Clinical NLP Master Class, Australian National University.
<u>National</u>	
2003	Chapman BE . Principles of Magnetic Resonance Imaging, SMRT Northeast Regional Conference, Pittsburgh, PA
2005	Chapman BE . Principles of Magnetic Resonance Angiography, Medrad Corporation, Pittsburgh, PA
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2006	Chapman BE . Making Radiology Quantitative: Plato vs. Aristotle, University of Utah, Department of Radiology
2009	Chapman BE . Pythagoras, Plato and Eratosthenes: Greek Models for Imaging Informatics, Arizona State University, Department of Biomedical Informatics
2010	Chapman BE . Pythagoras, Plato and Eratosthenes: Greek Models for Imaging Informatics, Oregon Health Sciences University, Department of Medical Informatics
2010	Chapman BE . Eratosthenes and Medical Imaging Informatics, University of California, San Diego, Division of Biomedical Informatics, Department of Medicine
2011	Chapman BE . Image Sharing with iDASH: Disrupting Data Ownership to Facilitate Imaging Research, FDA, Division of Imaging and Applied Mathematics, Silver Spring, MD
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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
2012	Chapman BE . Informatics Perspectives on Medical Imaging, Biomedical Informatics Seminar, University of California, San Diego, La Jolla, CA
2014	Chapman BE. Biomedical Informatics and Rebellion, Introduction to Health Informatics, University of Arizona.
2016	Brian E. Chapman. "Can I Learn from Big Data?" Western Society of Pediatric Cardiology. Park City, UT
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2018	Chapman BE. Teaching with JupyterHub. National Network of Libraries of Medicine. Salt Lake City, UT (November 2018)
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)
2020	Chapman BE. Punk Informatics: Technology Evolutions and Empowerment of a Do-It-Yourself Health Professional. University of Melbourne (31 July 2019).
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.
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
2023	Chapman BE . "The varieties of healthcare experience: Pluralism, informatics, and consumer empowerment". MedInfo 2023. Sydney, NSW, AU, July 2023.
2023	Chapman BE. "The Informatics Rebellion and the Patient Experience". Department of Biomedical Informatics, University of Pittsburgh, Pittsburgh, PA, August 24, 2023.