

CURRICULUM VITAE
TOBY CHARLES CORNISH, M.D., Ph.D.

I. PERSONAL INFORMATION

Current Position:

Associate Professor, University of Colorado School of Medicine
Vice Chair of Pathology Informatics, Department of Pathology, University of Colorado
Medical Director of Informatics, Department of Pathology, University of Colorado
Medical Director of the Laboratory Information System, UCHealth System

Contact Information:

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II. EDUCATION AND TRAINING

1995	B.S.	Bradley University, Peoria, IL	Biochemistry
2004	Ph.D.	University of Illinois, Urbana, IL	Neuroscience
2005	M.D.	University of Illinois, Chicago, IL	Medicine
2006	Intern	Johns Hopkins Hospital	Anatomic Pathology
2007	Asst. Resident	Johns Hopkins Hospital	Anatomic Pathology
2008	Research Fellow	Johns Hopkins University	Pathology
2009	Resident	Johns Hopkins Hospital	Anatomic Pathology
2010	Clinical Fellow	Johns Hopkins Hospital	GI & Liver Pathology
2011	Certificate	Johns Hopkins University	Clinical Informatics

III. ACADEMIC APPOINTMENTS

July 2010 - Jun 2011	Assistant (Faculty), GI & Liver Pathology	JHU School of Medicine
July 2011 - Jan 2016	Assistant Professor, Pathology	JHU School of Medicine
Jan 2016 - Present	Adjunct Assistant Professor, Pathology	JHU School of Medicine
Jan 2016 - Jun 2017	Visiting Associate Professor, Pathology	University of Colorado School of Medicine
July 2017 - Present	Associate Professor, Pathology	University of Colorado School of Medicine

IV. OTHER PROFESSIONAL POSITIONS

Hospital positions:

July 2010 - Jan 2016	Pathologist	Johns Hopkins Hospital
July 2010 - Jan 2016	Pathologist	Johns Hopkins Bayview Medical Center
July 2012 - Jan 2016	Pathologist	Howard County General Hospital
July 2014 - Jun 2015	Associate Director	Division of Informatics, Pathology Department, JHU Hospital
July 2015 - Jan 2016	Interim Director	Division of Informatics, Pathology Department, JHU Hospital
Jan 2016 - Present	Medical Director of Informatics	Department of Pathology, University of Colorado School of Medicine
Jan 2016 - Present	Medical Director of the LIS	UC Health System
Jan 2016 - Present	Pathologist	University of Colorado Hospital
Sep 2018 - Jul 2021	Medical Director of Clinical Informatics, Pathology and Lab Medicine	Childrens' Hospital Colorado

Consultantships:

2010	Consultant	Hammamatsu, Inc
2010 - 2014	Sci. Advisory Board	Digipath, Inc.
2012 - 2013	Sci. Advisory Board	Accelpath, Inc.
2013	Consultant	Virginia Hospital Center
2015	Consultant	Guidepoint Global

Other:

2011 - 2012	Member, Aperio, Inc. Repository Project Advisory Group
2012 - 2016	Co-director, Imaging and Image Analysis, Oncology Tissue Services Lab (formerly the Tissue Microarray Lab), JHU
2015 - 2017	Member, Advisory Panel, Digital Pathology Congress
2016 - present	Member, American Registry of Pathology Editorial Advisory Board, Next Generation of ARP Publications (5th Series)
2017 - 2018	Member, Epic Systems Corp. Pathology Steering Board
2017 - 2019	Section Editor (Informatics), Editorial Board, <i>American Journal of Clinical Pathology</i>
2017 - 2019	Member, Leica, Inc. Pathology Imaging Advisory Board
2017 - present	Member, Cerner Corp. CoPathPlus Pathology Advisory Committee
2019 - present	Associate Editor (Informatics), Editorial Board, <i>American Journal of Clinical Pathology</i>
2019 - present	Member, Leica, Inc. Advanced Staining and Imaging Advisory Board

- 2019 - 2020 Member, Editorial Advisory Board, *Springer Lecture Notes in Artificial Intelligence: State-of-the-Art Survey: AI/Machine Learning for Digital Pathology*
- 2021 Member, Bristol Meyer Squibb, Ozanimod (ZEPOSIA®) Advisory Board: GI Pathologists' Insights on True North Biopsy Data and Real-World Biopsy Data Reporting to Guide Future BMS Trials

V. HONORS, SPECIAL RECOGNITIONS AND AWARDS

- 1998 - 1999 Program in Arms Control, Defense and International Security Research Fellowship (University of Illinois, Urbana-Champaign)
- 2000 University Fellowship (University of Illinois, Urbana-Champaign)
- 2000 - 2002 Developmental Neuroscience and Psychobiology Training Grant Fellow (NIH; University of Illinois, Urbana-Champaign)
- 2004 Daniel K. and Frances Bloomfield Award ("Outstanding Student Entering the Last Year of Studies in the Medical Scholars Program," University of Illinois, Urbana-Champaign College of Medicine)
- 2005 Donald Thrush Award for Excellence in Pathology (University of Illinois, Urbana-Champaign College of Medicine)
- 2008 Excellence in Basic Research, Pathology Young Investigators (JHU)
- 2008 College of American Pathologists Travel Grant, APIII (Advancing Practice, Instruction, and Innovation through Informatics) Meeting
- 2009 - 2010 Ruth L. Kirchstein NRSA Fellowship (JHU training grant)
- 2010 Excellence in Clinical Research, Pathology Young Investigators (JHU)
- 2010 - 2011 Yardley Fellow (Division of GI & Liver Pathology, JHU)
- 2012 Dr. Frank Netter Award for Special Contributions to Medical Education (Vesalius Trust)
- 2012 Grover Hutchins, M.D., Endowment, Faculty Support Award (JHU)
- 2014 Educational Innovation Award, Institute for Educational Excellence (JHU SOM)
- 2019 Summit Award for Excellence in Teaching and the Education of Pathologists (CU SOM Pathology Dept)
- 2020 Medical Student Small Group Teaching Certificate ("Awarded in recognition of exceptional service in teaching 10 or more small group sessions by a faculty member"; CU SOM Pathology Dept)
- 2020 The Power List 2020, "Big Breakthroughs", *The Pathologist Magazine*
- 2021 Medical Student Small Group Teaching Certificate ("Awarded in recognition of exceptional service in teaching 6 or more small group sessions by a faculty member"; CU SOM Pathology Dept)

VI. MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- 2005 - present Member, United States and Canadian Academy of Pathology (USCAP)
- 2006 - present Member, College of American Pathologists (CAP)
- 2007 - present Member, Association for Pathology Informatics (API)
- 2009 - 2011 Member, American Association for Cancer Research (AACR)
- 2012 - present Member, Digital Pathology Association (DPA)
- 2015 - 2016 Member, American Medical Informatics Association (AMIA)
- 2016 - present Member, American Telemedicine Association (ATA)
- 2018 - present Member, Gastrointestinal Pathology Society (GIPS)

2019 - present Member, Healthcare Information and Management Systems Society (HIMSS)
 2019 - present Member, Society for Imaging Informatics in Medicine (SIIM)
 2019 - present Member, Alliance for Digital Pathology

VII. MAJOR COMMITTEE AND SERVICE RESPONSIBILITIES

Departmental:

2009 - 2016 Member, Web Site Committee, JHU SOM Pathology Dept
 2011 - 2015 Member, Residency Selection Committee, JHU SOM Pathology Dept
 2014 - 2015 Associate Director, Division of Informatics, JHU SOM Pathology Dept
 2015 - 2016 Interim Director, Division of Informatics, JHU SOM Pathology Dept
 2016 - present Medical Director, Pathology Informatics, CU SOM Pathology Dept
 2017 - present Chairperson, Web Site Committee, CU SOM Pathology Dept
 2019 - 2021 Co-Chairperson, Colorado Genetic Laboratory (CGL) & Colorado Molecular Correlates Laboratory (CMOCO) LIS Search Committee, CU SOM Pathology Department
 2021 - present Vice Chair of Pathology Informatics, CU SOM Pathology Dept
 2021 - present Member, AP/CP Program Evaluation Committee, CU SOM Pathology Dept
 2021 - present Chairperson, Subcommittee on Technology for Education, AP/CP Program Evaluation Committee, CU SOM Pathology Dept

University / School of Medicine:

2010 - 2014 Member, caTissue Steering Committee, JHU SOM
 2011 - 2016 Member, Education Technology Committee, JHU SOM
 2012 - 2016 Co-director, Imaging and Image Analysis, Oncology Tissue Services Lab (formerly the Tissue Microarray Lab), JHU SOM
 2014 - 2016 Member, OpenSpecimen Steering Committee, JHU SOM

Hospital / Health System:

2009 - 2010 GI Biopsy Quality Improvement Effort, Johns Hopkins Hospital
 2010 - 2016 GI Pathology Interesting Case/Quality Assurance Conference, Johns Hopkins Hospital
 2011 - 2016 PDS/Pathology Information Systems Steering Committee, Johns Hopkins Hospital
 2012 Member, College of American Pathologists Laboratory Accreditation Inspection Team, Johns Hopkins Hospital
 2015 - 2016 Autopsy Pathology Quality Assurance Conference, Johns Hopkins Hospital
 2015 - 2016 Member, Health IT Safety Committee, Johns Hopkins Medicine
 2015 - 2016 Epic Physician Champions (Pathology Representative), Johns Hopkins Medical Institutions
 2015 - 2016 Member, Data Trust Research Data Sub-Council, Johns Hopkins Medicine
 2015 - 2016 Member, Laboratory Advisory Committee, Johns Hopkins Hospital
 2015 - 2016 Member, Clinical Advisory/Laboratory Management Committee, Johns Hopkins Department of Pathology
 2016 - present Member, Joint Informatics Group, UC Health
 2016 - present Member, LIS Steering Committee, UC Health

2016 - present	Medical Director, Laboratory Information System, UC Health
2016 - present	Member, Pharmacogenomics Implementation Committee Colorado (PICColo), UC Health
2018 - 2021	Medical Director of Clinical Informatics, Pathology and Lab Medicine, Children's Hospital Colorado (CHCO)

Clinical (Service) Responsibilities:

2010 - 2016	Gastrointestinal pathology, Johns Hopkins Hospital
2011 - 2016	Autopsy pathology, Johns Hopkins Hospital
2011 - 2016	Autopsy pathology, Johns Hopkins Bayview Medical Center
2012 - 2016	Gastrointestinal pathology, Howard County General Hospital
2016 - present	Gastrointestinal pathology, University of Colorado Hospital
2016 - present	Gastrointestinal pathology, UCHealth Broomfield Hospital
2016 - 2018	Gastrointestinal pathology, UCHealth Grandview Hospital
2020 - present	Gastrointestinal pathology, UCHealth Cherry Creek Medical Center

Professional Society:

2012 - 2013	Member, College of American Pathologists Digital Pathology Working Group
2013 - 2014	Member, College of American Pathologists Digital Pathology Project Team
2014 - 2019	Member, College of American Pathologists Digital Pathology Committee
2017 - 2018	Member, AACR 2018 Annual Meeting Program Committee
2018 - 2019	Co-chair, Association for Pathology Informatics Training and Education Committee
2019 - 2020	Member, College of American Pathologists Digital and Computational Pathology Committee
2019 - present	Member, HIMSS-SIIM Enterprise Imaging Community's Multimedia Interactive Content Reporting Workgroup
2020 - present	Member, HIMSS-SIIM Enterprise Imaging Community Advisory Council
2020 - present	Member, Digital Pathology Association Artificial Intelligence / Machine Learning (AI/ML) Committee
2021	President-Elect, Association for Pathology Informatics
2021 - present	Member, College of American Pathologists Artificial Intelligence Committee
2022	President, Association for Pathology Informatics

VIII. LICENSURE AND BOARD CERTIFICATION

Licensure:

2008 - 2010	Medical Physician and Surgeon, Commonwealth of Pennsylvania, MD435996 (status: inactive)
2010 - 2016	Medical Physician and Surgeon, State of Maryland, D70746 (status: inactive)
2015 - present	Physician, State of Colorado, DR.0056128

Board Certification:

2009 - 2029	Diplomate, Anatomic Pathology, The American Board of Pathology
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2015 - 2025 Diplomate, Clinical Informatics, The American Board of Pathology

IX. INVENTIONS, PATENTS, INTELLECTUAL PROPERTY

2015 Halushka MK and **Cornish TC**. "Method and System to Digitize Pathology Slides in a Stepwise Fashion for Review", Co-inventor (with Marc K. Halushka), US Patent 9,214,019; filed Feb 15, 2012, and issued Dec 15, 2015.

X. REVIEW AND REFEREE WORK

Editorial Board Service:

2017 - 2019	Section Editor	<i>American Journal of Clinical Pathology</i> (Informatics, GI & Liver Pathology)
2019 - present	Associate Editor	<i>American Journal of Clinical Pathology</i> (Informatics)
2019 - present	Editorial Advisory Board	<i>American Registry of Pathology, Fascicles of Pathology, 5th Series</i>
2019 - 2020	Editorial Advisory Board	<i>Springer Lecture Notes in Artificial Intelligence: State-of-the-Art Survey: AI/ML for Digital Pathology</i>
2020 - present	Editorial Board	<i>Modern Pathology</i>

Ad-hoc Review for Journals, Professional Societies and Scientific Meetings:

2009	Ad-hoc Reviewer	<i>Annals of the British Machine Vision Association</i>
2010 - 2015	Ad-hoc Reviewer	<i>Laboratory Investigation</i>
2012	Ad-hoc Reviewer	<i>Diagnostic Cytopathology</i>
2012	Ad-hoc Reviewer	<i>Journal of Neuropathology and Exp Neurology</i>
2013 - 2020	Ad-hoc Reviewer	<i>Archives of Pathology & Laboratory Medicine</i>
2014 - present	Ad-hoc Reviewer	<i>Journal of Pathology Informatics</i>
2014	Ad-hoc Reviewer	<i>Journal of Visualized Experiments</i>
2015	Ad-hoc Reviewer	<i>AIMS Medical Science</i>
2015	Ad-hoc Reviewer	<i>Scientific Reports</i>
2015	Ad-hoc Reviewer	<i>Advances in Medical Sciences</i>
2016	Ad-hoc Reviewer	<i>Microscopy and Microanalysis</i>
2017 - 2019	Ad-hoc Reviewer	<i>Pathology</i>
2017 - present	Ad-hoc Reviewer	<i>American Journal of Clinical Pathology</i>
2017 - 2020	Ad-hoc Reviewer	<i>Journal of Clinical Investigation</i>
2018	Ad-hoc Reviewer	<i>JAMA Oncology</i>
2018	Ad-hoc Reviewer	<i>Clinical Medicine Insights: Pathology</i>
2018	Ad-hoc Reviewer	<i>Histopathology</i>
2019 - 2020	Ad-hoc Reviewer	<i>Modern Pathology</i>
2019	Ad-hoc Reviewer	<i>JAMA Network Open</i>
2019	Ad-hoc Reviewer	<i>Research Square</i>
2019	Ad-hoc Reviewer	<i>npj Digital Medicine</i>
2020	Ad-hoc Reviewer	<i>Medical Image Analysis</i>
2020 - 2021	Ad-hoc Reviewer	<i>Clinical Chemistry</i>
2020	Ad-hoc Reviewer	<i>Human Pathology: Case Reports</i>
2020	Ad-hoc Reviewer	<i>Mayo Clinic Proceedings: Innovations, Quality & Outcomes</i>

2021	Ad-hoc Reviewer	<i>Journal of the American Medical Informatics Association (JAMIA)</i>
2021	Ad-hoc Reviewer	<i>Journal of Pathology</i>
2021	Ad-hoc Reviewer	<i>Journal of Pathology: Clinical Research</i>
2021	Ad-hoc Reviewer	<i>American Journal of Pathology</i>
2021	Ad-hoc Reviewer	<i>Journal for ImmunoTherapy of Cancer</i>
2021	Ad-hoc Reviewer	<i>Computerized Medical Imaging and Graphics</i>
2021	Reviewer	SIIM 2022 Annual Meeting Session Proposals

Grant Review:

2019	External Reviewer	Mitacs Elevate Postdoctoral Fellowship Award Program
2019	External Reviewer	Ontario Research Fund – Research Excellence Round 10
2020	External Reviewer	Ontario Institute for Cancer Research (OICR) - Ontario Molecular Pathology Research Network (OMPRN) Cancer Pathology Translational Research Grants (CPTRG)
2021	Expert Reviewer	Canada Foundation for Innovation (CFI) - John R. Evans Leaders Fund
2021	Member	NIH Emerging Imaging Technologies and Applications (EITA) Study Section
2021	Member	Colorado Clinical and Translational Sciences Institute (CCTSI) Translational Methods (TM-Pilot) Grant Program Study Section
2022	Member	Colorado Clinical and Translational Sciences Institute (CCTSI) Colorado (CO-Pilot) Grant Program Study Section

XI. INVITED EXTRAMURAL LECTURES, PRESENTATIONS AND VISITING PROFESSORSHIPS

Local:

1. “From Pushing Glass to Pushing Bits,” presented at Grand Rounds, Department of Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 11/23/2015.

Regional:

1. “Cultured Cells Respond to Substrate-Attached Synaptic Differentiation Cues,” presented at the Midwest Developmental Biology Meeting in Urbana, IL, 2000.

National:

1. “Pancreatic cancer precursors: early detection,” presented at Grand Rounds, Department of Pathology, Medical College of Wisconsin, Milwaukee, WI, 8/27/2010.

2. "Summarize the Basic Concepts in Digital Pathology and Image Analysis," 12th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 11/10/2012.
3. "Test Utilization in GI and Liver Pathology," 12th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 11/10/2012.
4. "A Practical Introduction to Digital Pathology," 13th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 10/26/2013.
5. "Test Utilization in GI and Liver Pathology," 13th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 10/26/2013.
6. "The Promise and Challenges of mPathology," presented at The Emerging Clinical & Laboratory Diagnostics Conference, American Association for Clinical Chemistry, San Jose, CA, 4/24/2014.
7. "Panel Discussion HER2 Testing: Multi-institutional Perspectives," 14th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 10/11/2014.
8. "Practical Pediatric Gastrointestinal Pathology," 14th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 10/12/2014.
9. "CAP Digital Pathology Committee Update," presented at Pathology Visions 2014, Digital Pathology Association, San Francisco, CA, 10/20/2014.
10. "Is In-Sourcing for me? -- Selection and Implementation of a Digital Pathology Consultation Platform," presented at Pathology Visions 2014, Digital Pathology Association, San Francisco, CA, 10/21/2014.
11. "Approaches to and Perspectives on Digital Insourcing of Pathology Consultation and Second Opinion," presented at Digital Pathology Congress USA, San Diego, California, 6/23/2015.
12. "From Pushing Glass to Pushing Bits," presented to Department of Pathology, University of Colorado School of Medicine, Aurora, Colorado, 7/9/2015.
13. "Practical Pediatric Gastrointestinal Pathology," 15th Annual Current Topics in Gastrointestinal and Liver Pathology, Johns Hopkins School of Medicine, Baltimore, MD, 10/17/2015.
14. "8003. In-Sourcing Digital Consults: Is it For Me?" American Society for Clinical Pathology (ASCP) Annual Meeting, Long Beach, CA, 10/28/2015.
15. "8005. A Primer on Regulatory and Legal Aspects of Whole Slide Imaging and Telepathology," American Society for Clinical Pathology (ASCP) Annual Meeting, Long Beach, CA, 10/29/2015.

16. "Selection and Implementation of a Digital Pathology System," Key Topics in Pathology Informatics Workshop, Pathology Informatics Summit 2016, Pittsburgh, PA, 5/23/2016.
17. "API4-16. Use of Digital Pathology for Establishing a Consultation Practice," American Society for Clinical Pathology (ASCP) Annual Meeting, Las Vegas, NV, 9/14/2016.
18. "The Current and Future State of Digital Pathology," American Association of Pathologists' Assistants Spring Meeting, Denver, CO, 3/22/2017.
19. "API8-17. Beyond the FDA: Regulations, Requirements, and Reimbursement in Digital Pathology," American Society for Clinical Pathology (ASCP) Annual Meeting, Chicago, IL 9/7/2017.
20. "Computational Pathology," part of "The Role of Artificial Intelligence in Digital Pathology" webinar presented by *The Pathologist*, broadcast to North America, 12/20/2017.
21. "Computational Pathology," Pathology Informatics Bootcamp, Pathology Informatics Summit 2018, Pittsburgh, PA, 5/21/2018.
22. "Revisiting the 'Gold Standard' in the Era of Computational Pathology," presented to the Division of Anatomic Pathology, Department of Laboratory Medicine and Pathology, Mayo Clinic, Rochester, Minnesota, 6/15/2018.
23. "Integrating Our Digital Future," presented to PDAS track, Association of Pathology Chairs Annual Meeting, San Diego, CA, 7/18/2018.
24. "Revisiting the 'Gold Standard' in the Era of Computational Pathology," presented to the Department of Pathology, University of Michigan, Ann Arbor, Michigan, 10/24/2018.
25. "Artificial Intelligence and the Practice of Pathology," presented to the Department of Pathology, University of Utah, Salt Lake City, Utah, 3/4/2019.
26. "From Pushing Glass to Pushing Bits: Building a Truly Digital Pathology Workflow," Association for Pathology Informatics Companion Society Meeting, USCAP Annual Meeting, National Harbor, MD, 3/14/2019.
27. "Buy, Build or Borrow? Filling functional gaps in your LIS," Foundational Topics in Pathology and Clinical Laboratory Informatics, Pathology Informatics Summit 2019, Pittsburgh, PA, 5/6/2019.
28. "KiNet: Single-stage Nuclear Recognition and Classification for Measuring Ki-67 Proliferation Index (PI) in Pancreatic Neuroendocrine Tumors," Histopathology Image Analysis (HIMA) Imaging Science, Pathology Informatics Summit 2019, Pittsburgh, PA, 5/6/2019.
29. "The Application of Artificial Intelligence to the Practice of Pathology," Frontiers in Pathology Imaging Informatics Session, Society for Imaging Informatics in Medicine (SIIM) Annual Meeting 2019, Aurora, CO, 6/28/2019.
30. "An Introduction to Artificial Intelligence in the Practice of Pathology," New Frontiers in Cytopathology Lecture, American Society of Cytopathology (ASC) Annual Meeting 2019, Salt Lake City, UT, 11/15/2019.

31. "Short Course 51: Adopting Digital and Computational Pathology in Clinical Practice: A Practical, Technical, Regulatory and Legal Primer," USCAP Annual Meeting 2020, Los Angeles, CA, 3/2/2020.
32. "Multimedia Interactive Reporting in Pathology" in "Enterprise Imaging – Multimedia Interactive Reporting in Imaging Centric Specialties," Course ID: 1010, Society for Imaging Informatics in Medicine (SIIM) Annual Meeting 2020, Virtual Meeting, 6/24/2020.
33. "Artificial Intelligence in Pathology Practice" in "Artificial Intelligence and Machine Learning in Pathology," Association for Pathology Informatics Virtual Classroom Series 2020, 12/9/2020.
34. "Short Course 51: Adopting Digital and Computational Pathology in Clinical Practice: A Practical, Technical, Regulatory and Legal Primer," USCAP Virtual Annual Meeting 2021, 3/14/2021.
35. "Brief Introduction to AI with Definitions," Association for Pathology Informatics Companion Society Meeting, USCAP Virtual Annual Meeting 2021, 3/16/2021.
36. "Application of Pathology Informatics in Cancer Centers," presented at Moffitt Cancer Center, Tampa, Florida, 4/8/2021.
37. "Short Course 51: Adopting Digital and Computational Pathology in Clinical Practice: A Practical, Technical, Regulatory and Legal Primer," USCAP Annual Meeting 2022, 3/23/2022.
38. "Digital Pathology: Current State, Next Steps, Future Visions," Session ID: 1021S, Society for Imaging Informatics in Medicine (SIIM) Annual Meeting 2022, Kissimmee, FL, 6/9/2021.

International:

1. "Pancreatic Cancer? There's an App for that," presented at 20th Congress of Chinese Society of Pathology and 4th Annual Meeting of Chinese Pathologists, Chongqing, Sichuan Province, China, 11/15/2014.
2. "Overcoming Barriers in Adoption of Digital Pathology," panel discussion, presented at Digital Pathology Congress, London, England, 12/4/2014.
3. "Global Insourcing of Pathology Consultation and Second Opinion Using Digital Pathology," presented at Digital Pathology Congress, London, England, 12/5/2014.
4. "Global Insourcing of Pathology Consultation and Second Opinion Using Digital Pathology," presented at Royal College of Pathologists Digital Pathology Symposium, Bradford, West Yorkshire, UK, 9/24/2015.
5. "The Future of Digital Pathology in Asia," panel discussion, presented at Digital Pathology Congress Asia, Kuala Lumpur, Malaysia, 8/22/2016.

6. "WSI Telepathology for International Expert Consultation and Second Opinion," presented at Digital Pathology Congress Asia, Kuala Lumpur, Malaysia, 8/23/2016.
7. "Computational Pathology," part of "The Role of Artificial Intelligence in Digital Pathology" webinar presented by *The Pathologist*, broadcast to Europe, 12/19/2017.
8. "Integrating Our Digital Future," presented at Digital Pathology Congress Asia, Tokyo, Japan, 5/9/2018.
9. "Legal and Regulatory Aspects of Telepathology," presented at International Symposium of Innovation in Transplantation: The Digital Era, Verona, Italy, 6/8/2018.
10. "The Current State of Digital Pathology in Clinical Practice," Artificial Intelligence and Digital Pathology Pre-Course, presented at the 11th Asia Pacific International Association of Pathology (APIAP) Congress Hefei, China, 10/11/2019.
11. "Buy, Build or Borrow? Filling Functional Gaps in your LIS," XV Health Informatics Conference: JIS Go Live 2020, Virtual Meeting, Buenos Aires, Argentina, 11/2/2020.

Industry:

1. "Integrating Our Digital Future," presented to Leica Biosystems (Aperio) Associates, Vista, CA, 7/16/2018.
2. "Crossing the Chasm? Adoption of Digital Pathology and Artificial Intelligence in Mainstream Pathology Practice," presented at Pathology Grand Rounds (Virtual Session), AstraZeneca, Gaithersburg, MD, 11/20/2020.

XII. TEACHING RECORD

Undergraduate:

1994 - 1995 Teaching Assistant, "Chemistry Laboratory" (CHEM 110), Bradley University

Graduate / Medical School:

1995 - 1996 Teaching Assistant, "Biochemistry Laboratory" (BCHM 355), University of Illinois Urbana-Champaign School of Chemical Sciences.

1997 - 1998 Teaching Assistant, "Experimental Techniques in Biochemistry" (BCHM 452), University of Illinois Urbana-Champaign School of Chemical Sciences.

2005 - 2010 Small Group Instructor, 2nd Year Medical Student Pathology Course, Johns Hopkins School of Medicine

2009 - 2016 Lecturer, "Pathology Informatics," Pathology Residency Didactic Lecture Series, Johns Hopkins School of Medicine

2010 - 2016 Pathology Demonstration Instructor in Gross Anatomy (1st year medical students), Johns Hopkins School of Medicine

2010 - 2016 Small Group Instructor in Pathology, Genes to Society Curriculum (2nd year medical students), Johns Hopkins School of Medicine

2010 - 2016	Lecturer, "Small Intestine," Genes to Society Curriculum (2 nd year medical students), Johns Hopkins School of Medicine
2011 - 2012	Lecturer, "Digital microscopy and quantitative microscopy for research applications and publication," ME:680.712 Phenotyping for Functional Genetics, Johns Hopkins School of Medicine
2012 - 2016	Small Group Instructor in Histopathobiology, Scientific Foundations of Medicine, Genes to Society Curriculum (1 st year medical students), Johns Hopkins School of Medicine
2013	Lecturer, "An introduction to digital whole slide imaging and whole slide image analysis," ME:680.712 Phenotyping for Functional Genetics, Johns Hopkins School of Medicine
2014	Visiting Lecturer, "Pancreatic Tumors: An Algorithmic Approach to Diagnosis," Zhejiang University School of Medicine, Hangzhou, Zhejiang Province, China. 11/17/2014.
2014	Visiting Lecturer, "Pancreatic Cancer Precursors and Early Detection of Pancreatic Cancer," Zhejiang University School of Medicine, Hangzhou, Zhejiang Province, China. 11/18/2014.
2014	Visiting Lecturer, "From Pushing Glass to Pushing Bits: An Introduction to Digital Pathology and Image Analysis for Clinical and Research Applications," Zhejiang University School of Medicine, Hangzhou, Zhejiang Province, China. 11/18/2014.
2015	Lecturer, "An introduction to digital whole slide imaging and whole slide image analysis," ME:680.712 Phenotyping for Functional Genetics, Johns Hopkins School of Medicine. 7/31/2015.
2016 - present	Small Group Facilitator, "Cardiovascular Pulmonary Renal Block: Pathology," 1st Year Medical Curriculum, University of Colorado School of Medicine.
2016 - present	Small Group Facilitator, "Disease & Defense Block," 1st Year Medical Curriculum, University of Colorado School of Medicine.
2016 - 2021	Small Group Facilitator, "GI & Liver Block," Digestion, Endocrine and Metabolic Systems Block, IDPT 6002, 2nd Year Medical Curriculum, University of Colorado School of Medicine.
2017	Preceptor, Foundations of Medicine, University of Colorado School of Medicine.
2017	Preceptor, PATH 8600 Research Elective, University of Colorado School of Medicine.
2017 - 2019	Lecturer, "Diseases of the Lower GI Tract," Digestion, Endocrine and Metabolic Systems Block, IDPT 6002, 2nd Year Medical Curriculum, University of Colorado School of Medicine.
2018 - 2021	Lecturer, "Neoplasms of the Lower GI Tract," Digestion, Endocrine and Metabolic Systems Block, IDPT 6002, 2nd Year Medical Curriculum, University of Colorado School of Medicine.
2021 - present	Lecturer, "Pathology of GI Polyps & Carcinoma: Part 1, GI Polyps," Plains - Gastrointestinal Systems Course, IDPT 5018-A11P, Medical Sciences (Plains) level, 1st Year Medical Curriculum, University of Colorado School of Medicine.
2021 - present	Small Group Facilitator, Plains - Gastrointestinal Systems Course, IDPT 5018-A11P, Medical Sciences (Plains) level, 1st Year Medical Curriculum, University of Colorado School of Medicine.

Resident:

- 2010 Presenter, "Pancreatic Tumors," slide-based unknowns conference, Medical College of Wisconsin, Milwaukee, WI (8/26/2010)
- 2013 - 2016 Lecturer, "Pediatric GI Pathology," Pathology Residency Didactic Lecture Series, Johns Hopkins School of Medicine
- 2018 - present Lecturer, "Introduction to Pathology Informatics," Pathology Residency Didactic Lecture Series, CU School of Medicine
- 2021 - present Lecturer, "Introduction to Laboratory Information Systems," Pathology Residency Immersion Block, CU School of Medicine

Fellow:

- 2019 Lecturer, "LIS Implementation/Selection," Lab Management Lecture Series, Pediatric Pathology Fellowship, Children's Hospital Colorado, Aurora, CO (9/18/2019)

Clinical instruction:

- 2010 - 2016 Instruction of pathology residents and fellows rotating on the Gastrointestinal Pathology service, Johns Hopkins School of Medicine
- 2011 - 2016 Instruction of pathology residents on the Autopsy Pathology service, Johns Hopkins School of Medicine
- 2012 - 2016 Instruction of pathology residents on the Pathology Informatics elective, Johns Hopkins School of Medicine
- 2016 - present Instruction of pathology residents and fellows rotating on the Gastrointestinal Pathology service, University of Colorado School of Medicine
- 2016 - 2017 Course director and instructor, Pathology Informatics Elective, University of Colorado School of Medicine
- 2018 - present Course director and instructor, Pathology Informatics Rotation, University of Colorado School of Medicine

Workshops/Seminars:

- 2011 Lecturer, "Digital microscopy and quantitative microscopy for research applications and publication," 2011 Mouse Pathobiology and Phenotyping Short Course, (concurrent with ME:680.712), Johns Hopkins School of Medicine, Baltimore, MD (7/29/2011)
- 2012 Lecturer, "Digital microscopy and quantitative microscopy for research applications and publication," 2012 Mouse Pathobiology and Phenotyping Short Course, (concurrent with ME:680.712), Johns Hopkins School of Medicine, Baltimore, MD (8/3/2012)
- 2013 Lecturer, "An introduction to digital whole slide imaging and whole slide image analysis," 2013 Mouse Pathobiology and Phenotyping Short Course, (concurrent with ME:680.712), Johns Hopkins School of Medicine, Baltimore, MD (7/19/2013)
- 2015 Lecturer, "An introduction to digital whole slide imaging and whole slide image analysis," ME:680.712 Phenotyping for Functional Genetics, Johns Hopkins School of Medicine (7/31/2015)

- 2017 “RT2017THUR Beyond the FDA: Discussing Digital Pathology with Primary Dx,” American Society for Clinical Pathology (ASCP) Annual Meeting, Chicago, IL (9/7/2017).
- 2018 “The Role of the LIS in Digital Pathology: Driver, Passenger or Bystander?” Pathology Visions (Digital Pathology Association Annual Meeting), San Diego, CA (11/5/2018).
- 2018 “Artificial Intelligence and the Practice of Pathology” Association for Pathology Informatics (API) Digital Pathology and AI Workshop 2.0, Columbus, OH (12/8/2018).
- 2019 “Artificial Intelligence and Digital Pathology: What Pathologists Need to Know” Association for Pathology Informatics (API) Digital Pathology and AI Workshop 3.0, Pittsburg, PA (12/14/2019).
- 2020 “How Enterprise Imaging is Leveraged for Patient Care from a Distance,” Panelist, HIMSS-SIIM Enterprise Imaging Community Roundtable, Webinar (4/15/2020).
- 2020 “Brief Introduction to AI with Definitions,” Association for Pathology Informatics (API) Digital Pathology and AI Workshop 4.0, Virtual Meeting, New York, NY (10/22/2020).

Session / Conference Chair:

- 2018 Moderator, Informatics Platform Session, USCAP Annual Meeting 2018, Vancouver, BC (3/20/2018)
- 2018 Moderator / Co-chair, Pathology Informatics Boot Camp, Pathology Informatics Summit 2018, Pittsburgh, PA (5/21/2018)
- 2018 Moderator, Short Abstract Presentations, Pathology Informatics Summit 2018, Pittsburgh, PA (5/22/2018)
- 2019 Moderator / Co-chair, Pathology Informatics Boot Camp, Pathology Informatics Summit 2019, Pittsburgh, PA (5/6/2019)
- 2019 Moderator, Short Abstract Presentations, Pathology Informatics Summit 2018, Pittsburgh, PA (5/8/2019)
- 2019 Co-chair, Frontiers in Pathology Imaging Informatics Session, Society for Imaging Informatics in Medicine (SIIM) Annual Meeting 2019, Aurora, CO (5/28/2019)
- 2022 Chair / Moderator, Digital Pathology: Current State, Next Steps, Future Visions, Session 1021S, Society for Imaging Informatics in Medicine (SIIM) Annual Meeting 2022, Kissimmee, FL, 6/9/2021.

III. GRANT SUPPORT

Current Support:

<u>Grant Source:</u>	NCI (1R21CA237493-01)
<u>Title:</u>	Development and Dissemination of KiNet: A Novel Imaging Informatics Tool for Gastrointestinal and Pancreatic Neuroendocrine Tumors
<u>Role on Project:</u>	Co-Principal investigator (Xing, co-PI)
<u>Effort:</u>	0.6 calendar months
<u>Inclusive Dates:</u>	4/2/2019 to 3/31/2021
<u>Total Direct Costs:</u>	\$108,750

Pending Support:

None.

Previous support:

<u>Grant Source:</u>	NCI
<u>Title:</u>	Cancer Center Support Grant
<u>Role on Project:</u>	Co-investigator (Nelson, PI)
<u>Effort:</u>	0.6 calendar months
<u>Inclusive Dates:</u>	5/1/2012 to 4/30/2017
<u>Total Direct Costs:</u>	\$4,100,428
<u>Grant Source:</u>	Commonwealth Grand Fund
<u>Title:</u>	Tumor Microenvironment
<u>Role on Project:</u>	Co-investigator (Pardoll, PI)
<u>Effort:</u>	2.4 calendar months
<u>Inclusive Dates:</u>	2014 to 2015
<u>Grant Source:</u>	AACR / Phillip A. Sharp Award
<u>Title:</u>	The Intersection of Epigenetic and Immune Checkpoint Therapy
<u>Role on Project:</u>	Co-investigator (Baylin, PI)
<u>Effort:</u>	0.24 calendar months
<u>Inclusive Dates:</u>	7/1/2014 to 6/30/2015
<u>Total Direct Costs:</u>	\$227,275
<u>Grant Source:</u>	NCI
<u>Title:</u>	SPORE in Prostate Cancer
<u>Role on Project:</u>	Co-investigator (Nelson, PI)
<u>Effort:</u>	0.6 calendar months
<u>Inclusive Dates:</u>	9/1/2014 to 8/31/2019
<u>Total Direct Costs:</u>	\$1,564,392
<u>Grant Source:</u>	DOD
<u>Title:</u>	SPORE in Prostate Cancer
<u>Role on Project:</u>	Co-investigator (Sfanos, PI)
<u>Effort:</u>	0.6 calendar months
<u>Inclusive Dates:</u>	9/30/2014 to 9/29/2017
<u>Total Direct Costs:</u>	\$230,833
<u>Grant Source:</u>	Prostate Cancer Foundation
<u>Title:</u>	Evaluation of PSMA based PET as functional imaging biomarkers
<u>Role on Project:</u>	Collaborator (Cho, PI)
<u>Effort:</u>	0.36 calendar months
<u>Inclusive Dates:</u>	2011 to 2013
<u>Total Direct Costs:</u>	\$300,000
<u>Grant Source:</u>	Amy and Jane Goldman (gift)
<u>Title:</u>	Quantitative Study of PanIN volume: implications for the early

<u>Role on Project:</u>	detection of pancreatic cancer Principal Investigator
<u>Effort:</u>	1.2 calendar months
<u>Inclusive Dates:</u>	12/2009 to 12/2010
<u>Total Direct Costs:</u>	\$75,000
<u>Grant Source:</u>	Sol Goldman Pancreatic Cancer Research Center
<u>Title:</u>	Quantitative Study of PanIN volume: implications for the early detection of pancreatic cancer
<u>Role on Project:</u>	Principal Investigator
<u>Effort:</u>	1.2 calendar months
<u>Inclusive Dates:</u>	12/2009 to 12/2010
<u>Total Direct Costs:</u>	\$50,000
<u>Grant Source:</u>	NIH (5 T32 CA067751-12)
<u>Title:</u>	Ruth L. Kirschenstein National Research
<u>Role on Project:</u>	Trainee
<u>Effort:</u>	9.0 calendar months
<u>Inclusive Dates:</u>	7/2009 to 6/2010
<u>Total Direct Costs:</u>	\$46,992

XIV. BIBLIOGRAPHY

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<https://scholar.google.com/citations?user=9uuZu6YAAAAJ&hl=en>

NCBI My Bibliography:

<https://www.ncbi.nlm.nih.gov/myncbi/1H75ia3PWqy/bibliography/public/>

Peer-Reviewed Scientific Papers:

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3. **Cornish T**, Branch DW, Wheeler BC, and Campanelli JT. Microcontact printing: a versatile technique for the study of synaptogenic molecules. *Mol Cell Neurosci*. 2002; 20:140-153. doi: [10.1006/mcne.2002.1101](https://doi.org/10.1006/mcne.2002.1101). PMID: [12056845](https://pubmed.ncbi.nlm.nih.gov/12056845/).
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- doi: [10.1038/modpathol.2008.111](https://doi.org/10.1038/modpathol.2008.111). PMID: [18567993](https://pubmed.ncbi.nlm.nih.gov/18567993/); PMCID: [PMC3170853](https://pubmed.ncbi.nlm.nih.gov/PMC3170853/); NIHMS285485
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