Kathryn M. Fisher, M.D., M.S.

CURRENT	APPOINTMENT
CURRENI	AFFUNINIMENT

Medical Education Fellow Department of Emergency Medicine Baylor College of Medicine	2019-2021 Houston, TX
POST-GRADUATE TRAINING	
Emergency Medicine Residency McGovern Medical School, University of Texas Health Science Center Houston	2016-2019 Houston, TX
EDUCATION	
Masters of Health Professions Education (M.H.P.E) student University of Illinois-Chicago	2019-present Chicago, IL
Doctor of Medicine (M.D.) University of Wisconsin School of Medicine and Public Health	2016 Madison, WI
M.D./Ph.D. Training, Medical Scientist Training Program (MSTP) University of Wisconsin School of Medicine and Public Health Completed Ph.D. coursework in Cell and Molecular Biology	2011-2014 Madison, WI
Masters of Science (M.S.): Microbiology University of Wisconsin-Madison	2011 Madison, WI
Bachelor of Science with Research Honors (B.S.): Medical Microbiology and Immunology, Genetics University of Wisconsin-Madison	2010 Madison, WI
Undergraduate Studies : Music Performance (Clarinet) and Microbiology <i>University of Michigan</i>	2006-2008 Ann Arbor, MI
POST-GRADUATE CERTIFICATIONS	
ACEP/CORD Resident Teaching Fellowship	2018

American College of Emergency Physicians (ACEP)/Council of Emergency

Medicine Residency Directors (CORD)

Dallas, TX

Physician Educator Certificate 2018 McGovern Medical School, University of Texas Health Science Center Houston, TX LEADERSHIP POSITIONS Vice Chair of Resident Education 2019-2020 Emergency Medicine Residents' Association (EMRA) Education Committee Developed and reviewed educational content for resident and medical student activities at national conferences • Presented at the Medical Education Fellowship Panel during the Education Committee Meeting at CORD 2019 • Provided mentorship to EMRA medical student mentees on education projects • Assisted with content development, editing and production of 2019 Quiz • Served on the selection committee for EMRA "20 in 6" Lecture Competition for ACEP 2019 Vice Chief of Simulation 2018-2019 McGovern Medical School Emergency Medicine (EM) Residency Houston, TX Assisted with development of novel simulation curriculum for resident conferences, intern orientation, and medical student didactics • Wrote and facilitated simulation cases for rotating medical students, EM intern orientation, and EM resident conferences • Participated and placed in Semi-Finals for EMRA Sim Wars 2018 **Vice Chief of Education** 2017-2019 McGovern Medical School Emergency Medicine Residency Houston, TX • Contributed to development of conference curriculum and multimodal "flipped classroom" boards review series • Developed program educational website and wrote weekly "Conference Recap" posts **Resident Member and Education Committee Member** 2018-2019 Council of Emergency Medicine Residency Directors (CORD) • Elected as program resident representative Attended CORD education committee meetings **Education Committee Member** 2017-2019 Emergency Medicine Residents' Association (EMRA) • Participated in conference committee meetings and remote events • Wrote questions for 2019 EMRA Quiz Show **Education Committee Member** 2016-2019 McGovern Medical School Emergency Medicine Residency Houston, TX

• Contributed during monthly faculty education committee meetings and assisted with resident curriculum design

PUBLICATIONS

Kathryn M. Fisher, Catherine Reynolds and Hilary Fairbrother. Teaching and Evaluating Medical Students Oral Presentations Skills. Abstract WestJEM [In-Press1

Catherine Reynolds, Kathryn Fisher, Hilary Fairbrother. A Novel Standardized Rubric for Medical Student Emergency Medicine Oral Presentations. Abstract WestJEM [In-Press]

Kathryn M Fisher, Akshay Elagandhala and Jonathan A. Giordano. 2018. Ophthalmology Emergencies. E-oral Boards Review. [In press]

Kathryn M. Fisher, Timothy Montrief, "Cryptococcal Meningitis" Peer-reviewed web publication. Emdocs.net. May 27, 2019.

Benjamin L. Cooper, Kathryn M. Fisher, Yashwant Chathampally. Man With Left-Sided Chest Pain. ECG of the month. Ann Emerg Med. Vol. 72. No. 5. Nov. 2018. p. 558-561. PMID: 30342730

Kathryn M. Fisher, Catherine Reynolds, Mandy Hill, Misha Granado and Michael Van Meter. Teaching Medical Students Oral Presentations Skills. Abstract WestJEM Volume 19: Supplement, S22. August 2018.

Catherine Reynolds, Kathryn Fisher, Hilary Fairbrother. "Diabetic Ketoacidosis: Sneaky triggers and clinical pearls" Peer-reviewed web publication. Emdocs.net Nov 2017

Jonathan D. Lenz, Elizabeth A. Stohl, Rosanna Robertson, Kathleen T. Hackett, Kathryn M. Fisher, Kalia Xiong, Mijoon Lee, Dusan Hesek, Shahriar Mobashery, H. Steven Seifert, Christopher Davies, and Joseph P. Dillard. 2016. Amidase Activity of AmiC Controls Cell Separation, Stem-peptide Release, and is Enhanced by NlpD in Neisseria gonorrhoeae. J. Biol. Chem. jbc.M116.715573. doi:10.1074/jbc.M116.715573 PMID: 26984407

AWARDS AND HONORS

Clerkship Director Resident Teaching Award (SAEM/CORD)	2019
McGovern Medical School, Society for Academic Emergency Medicine, CORD	
McGovern Resident Nominee for CORD Academic Achievement Award	2018
McGovern Emergency Medicine Residency and CORD	

Access Emergency Medicine: Tintinalli's Best of the Blogs 2018 "Diabetic Ketoacidosis: 'Sneaky' triggers and clinical pearls" Emdocs.net	2018
Medical Student Community Service Award University of Wisconsin School of Medicine and Public Health	2013
Chemistry Study Group Leader of the Year University of Michigan Science Learning Center	2007
Full tuition merit-based scholarship (music) University of Michigan	2006
Shipman Scholarship for academic and music merit University of Michigan	2006

PROFESSIONAL EXPERIENCE

LECTURES AND PRESENTATIONS

NATIONAL

Kathryn Fisher, Catherine Reynolds, Hilary Fairbrother. Teaching and Evaluating Medical Students Oral Presentations Skills. Council Of Emergency Medicine Residency Directors (CORD) Academic Assembly Poster Session. 04/2019

Catherine Reynolds, Kathryn Fisher, Hilary Fairbrother. A Novel Standardized Rubric for Medical Student Emergency Medicine Oral Presentations. Council Of Emergency Medicine Residency Directors (CORD) Academic Assembly Poster Session. 04/2019

Nicholas Governatori, Guy Carmelli, Sara Paradise, Kathryn Fisher and Deena Khamees. Medical Education Fellowship Panel. EMRA Education Committee Meeting. CORD Academic Assembly. 03/2019.

Kathryn Fisher. "Designer Drugs: Coming Soon To an Emergency Department Near You" Emergency Medicine Residents' Association (EMRA) 20 in 6 Resident Lecture Competition. American College of Emergency Physicians (ACEP) Annual Meeting. 10/03/2018

Kathryn Fisher, Catherine Reynolds, Mandy Hill, Misha Granado and Michael Van Meter. Teaching Medical Students Oral Presentations Skills. Council Of Emergency Medicine Residency Directors (CORD) Academic Assembly Poster Session 04/2018

REGIONAL

Fisher, Kathryn M., Garcia, Daniel L. and Joseph P. Dillard. A peptidoglycan degrading amidase, AmiC, as an antibiotic target in Neisseria gonorrhoeae. Midwest Microbial Pathogenesis Conference, Washington University in St. Louis, 09/2010

Fisher, Kathryn M., Garcia, Daniel L. and Joseph P. Dillard. A peptidoglycan degrading amidase, AmiC, as an antibiotic target in Neisseria gonorrhoeae. Perlman Symposium On Antibiotic Discovery and Development, University of Wisconsin-Madison, 04/2010

Guest Lecturer and Laboratory Instructor

LOCAL

	Medicine Resident Conference Lectures	
	edical School, University of Texas-Houston	03/2019
	Grand Rounds: Designer Drugs	03/2019
	ent Emergency Medicine Boards Review Lecture Series:	02/2010
0	Environmental	03/2019
0	Traumatic Injuries and Human Trafficking	10/2018
0	Cardiovascular	08/2018
0	Immunology and Rheumatology	07/2018
0	Obstetrics and Gynecology	05/2018
0	Abdominal	04/2018
0	Musculoskeletal and Hematology	03/2018
0	Toxicology	02/2018
0	Neurology Part II	01/2018
0	Neurology Part I	11/2017
0	Trauma	11/2017
0	Male Genitourinary	10/2017
0	Respiratory Part II	09/2017
0	Respiratory Part I	08/2017
	Orientation Lecture: "The Resident As a Learner"	07/2018
Journal Club Lecture: "Review of Medical Education Literature"		05/2017
	lecture series: "The Altered HIV Patient"	04/2017
• Intern	lecture series: "The Altered HIV Patient"	0 1.2017
Medical Stud		
	edical School, University of Texas-Houston	
	-year medical student didactics: "Syncope and EKG's"	08/2018
 Studer 	at Society for Emergency Medicine Interest Group: "EKG's"	10/2017
 Fourth 	-year medical student didactics: "Rapid Ultrasound for Shock	08/2017
and H	ypotension: RUSH exams"	
Lecturer, 5.0	9 curriculum G.E.D. course equivalent	10/2014
,		Milwaukee, WI
	municable Diseases"	

09/2012

Biology 312: Microbiology, Edgewood College

Madison, WI

- Lectured on DNA Replication
- Directed laboratory sessions on clinical microbiology laboratory testing

2009 Lecturer

Microbiology 304: General Microbiology Laboratory University of Wisconsin-Madison Department of Microbiology Madison, WI

• Lectured on Plasmids, Plasmid Replication and Gel Electrophoresis

SIMULATION

Medical Simulation Case Author and Facilitator

McGovern M	ledical School, University of Texas-Houston	Houston, TX
• Emer	gency Medicine Resident Conference Simulation Cases Authored	
0	"Neonatal Resuscitation"	05/2019
0	"Shoulder Dystocia"	04/2019
0	"Digoxin Toxicity"	03/2019
0	"Priapism Management"	01/2019
0	"Methamphetamine Laboratory Explosion"	10/2018
0	"Status Asthmaticus"	08/2018
0	"Neonatal Congenital Heart Disease"	07/2018
0	"Neonatal Sepsis"	07/2018
0	"Upper Gastrointestinal Bleed"	06/2018
	ted with medical student didactic curriculum in simulation, airway gement, ultrasound and procedure labs	08/2017-present
	ed regional medical student simulation competition at McGovern cal School	01/2018
	d case-scenarios for publication used in medical student simulation etition	12/2017-01/2018

CURRICULUM DESIGN

Emergency Medicine Resident Curriculum

2017-2019

McGovern Medical School, University of Texas-Houston

Houston, TX

- Developed in-conference boards review series based on HippoEM content using a flipped classroom model and multimodal approach
- Co-organized first-annual Resident Teaching Symposium during resident conference
- Developed first-annual intern orientation month workshop: Orientation to "Life Flight" and helicopter emergency medical services
- Assisted with development of novel simulation curriculum and authored and facilitated cases

Emergency Medicine Medical Student Clerkship

2017-2019

Houston, TX • Principal Investigator on IRB-approved "Teaching Medical Students Oral Presentations Skills" mentors: Dr. Michael Van Meter and Dr. Hilary Fairbrother • Co-organized and facilitated workshop: Mock Interviews and Residency Application and Interview Advice **Instructor, Physiology 335: Human Physiology** University of Wisconsin Department of Physiology 2014 • Designed lecture series, wrote course modules, discussion materials and Milwaukee, WI exams for Introductory Physiology and Neurophysiology sections **Public Health Curriculum Design** 2014 Milwaukee Literacy Services Milwaukee, WI • Developed a Health Curriculum for a G.E.D. course equivalent Maternal Fetal Health Curriculum for Medical Students 2012-2013 Medical Students Offering Maternal Support student organization, University of Madison, WI Wisconsin School of Medicine and Public Health Developed educational curriculum including lectures at orientation, monthly seminars, and community outreach on maternal health **Biotechnology Outreach** 2009-2010 University of Wisconsin-Madison Biotechnology Outreach Center Madison, WI • Created and demonstrated hands-on scientific exploration stations for kids at outreach events throughout Wisconsin and organized campus science events for kids • Taught week-long Microbiology course at "Grandparents University" for elementary students and their grandparents TEACHING EXPERIENCE **Resident Education Elective** 2017, 2018 McGovern Medical School, University of Texas-Houston Houston, TX • Completed month-long Educational Research elective • Completed month-long Education elective including individual teaching shifts with each medical student **Medical Student Tutor** 2013-2015 University of Wisconsin School of Medicine and Public Health, Madison, WI Madison, WI Tutored and lead discussion groups for a second-year medical student in integrated organ block courses **Instructor, Physiology 335: Human Physiology** 2014 University of Wisconsin Department of Physiology Madison, WI • Lectured for eight 90 minute lectures over course block

 Instructor and Tutor, Medical College Admission Test (MCAT) The Princeton Review Lectured and tutored for general and organic chemistry sections 	2011-2014 Madison, WI
 Academic Tutor, Athletic Academic Services University of Wisconsin-Madison Athletic Department Tutored individual and group sessions primarily in Organic and General Chemistry, Microbiology, Immunology, Biochemistry, Music Theory Prepared supplemental learning materials and exam preparatory guides 	2013-2014; 2008-2011 Madison, WI
 Chemistry Tutor Self-employed Tutored Organic Chemistry to undergraduate students and Chemistry to high school students 	2007-2014 Ann Arbor, MI Madison, WI
Teaching Assistant , Microbiology 304: General Microbiology Laboratory University of Wisconsin-Madison Department of Microbiology	2009 Madison, WI
 Study Group Facilitator, Organic Chemistry University of Michigan Science Learning Center Facilitated weekly study groups and designed study materials 	2007-2008 Ann Arbor, MI
RESEARCH EXPERIENCE	
 Educational Research Department of Emergency Medicine, McGovern Medical School • Principal Investigator on IRB-approved "Teaching Medical Students Oral Presentations Skills" mentors: Dr. Michael Van Meter and Dr. Hilary Fairbrother • Development of novel grading rubric for medical student oral presentations mentor: Dr. Hilary Fairbrother 	2017-present Houston, TX
Graduate Research Assistant Laboratory of Dr. Joseph Dillard, Ph.D. Department of Medical Microbiology and Immunology, University of Wisconsin School of Medicine and Public Health (UWSMPH)	2014 Madison, WI

Graduate Research Assistant

2013

Laboratory of Dr. Christine Seroogy, M.D.

evasion in Neisseria meningitidis

Madison, WI

Department of Pediatrics, Division of Allergy and Immunology, UWSMPH

and peptidoglycan fragment release in Neisseria meningitidis

Developed assay using human blood as a model system for studying peptidoglycan fragment release as it relates to pathogenesis and immune

Investigated the role of NlpD, a putative peptidoglycanase, on cell separation

Assisted with analysis of complex flow cytometry data and optimized analysis techniques for clinical trial data studying the development of the innate immune system, specifically addressing the role of environmental exposures on the development of asthma and allergies in childhood

Graduate Research Assistant

2012

Laboratory of Dr. Daniel Jackson, M.D.

Madison, WI

Department of Pediatrics, Division of Allergy and Immunology, UWSMPH

Analyzed data from patients in the Childhood Origins of Asthma (COAST) cohort investigating the role of vitamin D deficiency in the development of asthma, allergies and atopic dermatitis in children

Graduate Research Assistant

2012

Laboratory of Dr. Ryan Westergaard, M.D.

Madison, WI

Department of Medicine, Division of Infectious Disease, UWSMPH

Assisted with design of retrospective study to analyze behavioral patterns of injection drug users assessing high-risk drug- and needle-sharing behaviors in Milwaukee and Madison, WI and its relationship to prevalence and incidence of Hepatitis C and HIV infection in this population

Graduate Research Assistant

2012

Laboratory of Dr. John-Demian (J.D.) Sauer, Ph.D.

Madison, WI

Department of Medical Microbiology and Immunology, UWSMPH • Investigated the role of *lmo2473* and other gene mutations in *Listeria* monocytogenes on bacteriolysis in host macrophages and its role on host cell

death, inflammasome activation, and cytokine production

Research Assistant

2008-2011 Madison, WI

Laboratory of Dr. Joseph Dillard, Ph.D.

Department of Medical Microbiology and Immunology, UWSMPH

- Investigated the role of AmiC in cell separation and the possibility of AmiC as an antibiotic drug target
- Contributed preliminary data to funded R01 grant on cell separation in Neisseria gonorrhoeae and R21 grant on the action of AmiC in peptidoglycan metabolism in Neisseria gonorrhoeae
- Developed assay to study the function of AmiC, a peptidoglycanase, in peptidoglycan recycling and fragment release in the pathogenesis of Neisseria gonorrhoeae

VOLUNTEER EXPERIENCE

Medical Student Mentor

2017-present

McGovern Medical School, University of Texas-Houston

Houston, TX

• Individual mentorship of three current 3rd year medical students

Medical Student Free Clinics, MEDIC Student-run Free Clinics 2011-2016 University of Wisconsin School of Medicine and Public Health Madison, WI • Over 100 hours volunteered providing direct patient care in several area clinics **Event Medicine: Emergency Medical Technician** 2010-2014 University of Wisconsin Police Department First Responders Madison, WI • Responded to campus 9-1-1 calls on weekends, nights Provided medical care for special events such as marathons, Ironman races, university sporting events **Community Service Programs Committee Member** 2012-2013 University of Wisconsin School of Medicine and Public Health Madison, WI Served on committee with the Dean of Students regarding improvement and maintenance of medical student service organizations Global Health Volunteer: San Lucas Tolimán, Guatemala 2012 University of Wisconsin School of Medicine and Public Health-sponsored Guatemala • Participated in two-week long trip to provide medical care in rural Guatemala 2011-2013 **Director,** Medical Students Offering Maternal Support student organization, University of Wisconsin School of Medicine and Public Health Madison, WI Recruited and matched first- and second-year medical students to serve as doulas and provide support for pregnant women in area clinics • Organized a doula training course for interested medical and nursing students

CERTIFICATIONS

Board Eligible, Emergency Medicine, 2019 DEA license (Active, Expires 09/30/2021) Texas Medical License (Active, Expires: 11/30/2021)

and completed birth doula training course

Advanced Cardiac Life Support (ACLS), expires 07/2021 Advanced Trauma Life Support (ATLS), expires 07/2020 Basic Life Support (BLS), expires 07/2021 Bedside Ultrasound Pediatric Advanced Life Support (PALS), expires 07/2020

Emergency Medical Technician-Advanced, WI (2010-2016)

PROFESSIONAL AFFILIATIONS

American College of Emergency Physicians (ACEP)	2016-present
American College of Emergency Physicians (ACEP): American Association of	2016-present
Women Emergency Physicians (AAWEP)	

Council of Emergency Medicine Residency Directors (CORD) Resident Member	2018-present
Emergency Medicine Resident Association (EMRA)	2016-present
EMRA Education Committee	2017-present
FeminEM	2018-present
Society for Academic Emergency Medicine (SAEM)	2016-present
Texas Medical Association	2016-present
Texas College of Emergency Physicians (TCEP)	2016-present

PROFESSIONAL INTERESTS

Medical Education, Curriculum Design, Simulation, Toxicology, Research

LANGUAGES

Proficient in Medical Spanish