

CURRICULUM VITAE

Martin Hoeller Dominguez, MD, PhD

PERSONAL DATA

Birthplace: Pittsburgh, PA
Nationality: US Citizen
Gender: Male
Race / Ethnicity: White / Hispanic (Mexican-American)
Languages: English, Spanish
Address:
3101 Market Street LeBow Engineering 437
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EDUCATION

Secondary: August 1997 – May 2001
International Baccalaureate Diploma (2001)
North Central High School
Indianapolis, IN

Undergraduate: August 2001 – May 2005
B.S., Molecular, Cellular, and Developmental Biology (2005)
Yale College
New Haven, CT

Graduate / Medical: August 2005 – May 2013
Ph.D., Neurobiology (2012)
project: molecular cell identity and migration in cerebral cortex development
graduate thesis advisor: Pasko Rakic, MD PhD
M.D. (2013)
Yale University School of Medicine
New Haven, CT

POSTGRADUATE TRAINING

Residency: June 2016 – June 2019
Internal Medicine
New York Presbyterian Hospital – Columbia University Medical Center
New York, NY

Clinical Fellowship: July 2016 – June 2019
Cardiovascular Disease

University of California, San Francisco
San Francisco, CA

Research Fellowship: July 2018 – October 2020
Postdoctoral Fellowship at Gladstone Institute of Cardiovascular Disease
project: 4D light sheet imaging & computational reconstruction
postdoctoral advisor: Benoit Bruneau, PhD
Gladstone Institutes and University of California, San Francisco
San Francisco, CA

Research Fellowship: October 2020 – September 2024
Postdoctoral Fellowship at Penn Cardiovascular Institute
project: mouse models of cardiac mechanical signaling
postdoctoral advisor: Mark Kahn, MD
Perelman School of Medicine at the University of Pennsylvania
Philadelphia, PA

ACADEMIC EMPLOYMENT & APPOINTMENTS

Preparatory Teacher September 2004 – June 2010
MCAT and DAT Instructor
Kaplan, New Haven, CT

Program Coordinator August 2005 – May 2013
Graduate Affiliates Program at Pierson College
Yale University, New Haven CT

Visiting Scientist September 2020 – present
Collaborator, consultant, and primary researcher
Gladstone Institutes, San Francisco, CA

Clinical Instructor September 2023 – September 2024
Instructor, Department of Medicine
Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA

Visiting Scholar September 2024 – present
Collaborator, consultant, and primary researcher
University of Pennsylvania Cardiovascular Institute, Philadelphia, PA

Assistant Professor **September 2024 – present**
Assistant Professor of Medicine
Drexel University College of Medicine, Philadelphia, PA

CLINICAL APPOINTMENTS

Medical Staff May 2023 – January 2024
Attending non-invasive cardiologist, consult service & echocardiography, part-time
Jefferson Torresdale Hospital, Philadelphia, PA

Medical Staff May 2024 – January 2026
Attending non-invasive cardiologist & echocardiographer
Tower Health Medical Group, Phoenixville and Pottstown, PA

Medical Staff **January 2026 – present**
Attending non-invasive cardiologist & echocardiographer
Temple Faculty Practice & Jeanes Hospital, Philadelphia, PA

BOARD CERTIFICATIONS AND LICENSES HELD

Licensed physician, New York (license #: 277358)	2014 – 2016
Licensed physician, California (license #: A141211)	2016 – 2023
ABIM Board Certified in Internal Medicine	2016 – Present
ABIM Board Certified in Cardiovascular disease	2019 – Present
NBE Board Certified in Adult Comprehensive Echocardiography	2020 – Present
Licensed physician, Pennsylvania (license #: MD474560)	2021 – Present
DEA Practitioner, Pennsylvania (reg #: FD2536261)	2023 – Present

HONORS AND AWARDS

2001 North Central Honors Diploma & Indiana Honors Diploma Recipient
2005 Cum Laude, with distinction in biology, Yale College
2008 Kaplan Teacher of the Year Award for Southern Connecticut
2013 Yale M.D./Ph.D. Award, for an outstanding member of the graduating M.D./Ph.D. class who has shown excellence in both research and clinical activities
2019 T32 scholar, Molecular and Cellular Basis of Cardiovascular Disease, UCSF
2020 T32 scholar, Cardiovascular Biology and Medicine, University of Pennsylvania
2023 Author of funded NHLBI R01 supplement promoting diversity (PI: Mark Kahn)
2023 Cover Art / Feature Story, Cell, February 6, 2023 edition
2024 American Heart Association Transformational Project Award
2025 National Heart, Lung, and Blood Institute (NHLBI) K08 Career Development Award
2026 Cover Art / Feature Story, Nature Cardiovascular Research, January, 2026 edition

PROFESSIONAL SOCIETY MEMBERSHIP

Fellow in Training, American College of Cardiology	2016 – 2020
Trainee Member, American Heart Association	2016 – 2020
Early Career Member, American Heart Association	2023 – present

EDUCATIONAL ACTIVITIES & ADMINISTRATION

Pierson College Council, Yale University	2002 – 2005
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Yale Residential College Dining Committee Representative	2003 – 2004
Kaplan Preparatory Instructor (ACT, SAT, MCAT, DAT)	2004 – 2010
Residential Affiliate, Pierson College, Yale University	2005 – 2010
Seminar Committee Chair for Pierson College, Yale University	2005 – 2013
Teaching Fellow, Neuroanatomy, Yale School of Medicine	2007 – 2009
Teaching Fellow, Brain and Thought, Yale University	2008 – 2009
Postdoctoral Fellow and Clinical Instructor supervising PhD students, research technicians	2008 – 2024
Attending Physician, Jefferson Torresdale Hospital supervising MS3/4 students, residents, fellows	2023
Attending Physician, Phoenixville and Pottstown Hospitals supervising MS3/4 students & residents	2024 – 2026
Attending Physician, Jeanes Hospital supervising advanced practice providers	2026 – present

LABORATORY SKILLS REPERTOIRE

Rodent husbandry	Light sheet microscopy	DNA/RNA preparation
Rodent survival surgery	Live imaging	Single cell RNAseq
Rodent <i>in utero</i> electroporation	Histological preparations	Single cell ATACseq
Rodent postnatal electroporation	Immunohistochemistry	Western blotting
CRISPR	<i>In situ</i> hybridization	RNA-seq and ChIP-seq analysis
iGONAD (rodent germline CRISPR)	Cell culture	Quantitative image analysis
Rodent whole embryo culture	Immunoprecipitation	Single cell genomics analysis
Confocal microscopy	PCR/Cloning	

CODING / SCRIPTING EXPERIENCE

AutoIT3 – intermediate	ImageJ macro – proficient	Perl – proficient
C – proficient	Java – basic	Python – intermediate
C++ – intermediate	Linux shell script – proficient	R – intermediate