

CURRICULUM VITAE

DATE: August 2016

NAME: Daniel Benjamin Horton, MD, MSCE

PRESENT TITLE: Assistant Professor of Pediatrics

OFFICE ADDRESS: Institute for Health, Health Care Policy and Aging Research
112 Paterson Street, Room 327
New Brunswick, NJ 08901

TELEPHONE NUMBER/E-MAIL ADDRESS:
848-932-4607 (work)
daniel.horton@rutgers.edu

CITIZENSHIP: United States

EDUCATION:

A. Undergraduate

*Harvard College
Cambridge, MA
AB (Biology) June 2001*

B. Graduate and Professional

*Center for Clinical Epidemiology and Biostatistics, Perelman School of Medicine,
University of Pennsylvania
Philadelphia, PA
MSCE (Clinical Epidemiology) May 2015*

*Harvard Medical School
Boston, MA
MD (Medicine) June 2008*

POSTGRADUATE TRAINING:

A. Internship and Residency

*Children's Hospital of Philadelphia, Philadelphia, PA
Pediatrics
June 2008-June 2011*

B. Clinical Fellowships

*Nemours A.I. duPont Hospital for Children, Wilmington, DE
Pediatric Rheumatology
July 2011-June 2014*

C. Research Fellowships

*Center for Clinical Epidemiology and Biostatistics, Perelman School of Medicine,
University of Pennsylvania, Philadelphia, PA
NIH NRSA T32-GM-075766 Clinical Pharmacoepidemiology Institutional Fellowship
July 2012-June 2014*

D. Postdoctoral Appointments

*Rutgers Biomedical and Health Sciences, New Brunswick, NJ
Pharmacoepidemiology Postdoctoral Fellowship
July 2015-June 2016*

*Center for Clinical Epidemiology and Biostatistics, Perelman School of Medicine,
University of Pennsylvania, Philadelphia, PA
NIH NRSA F32-AR-066461 Individual Postdoctoral Fellowship
July 2014-June 2015*

MILITARY: N/A

ACADEMIC APPOINTMENTS:

Pediatrics
Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ
Assistant Professor of Pediatrics, Chancellor's Scholar
August 2016-present

Pediatrics
Rutgers Robert Wood Johnson Medical School, New Brunswick, NJ
Adjunct Instructor of Pediatrics
November 2015-July 2016

HOSPITAL APPOINTMENTS:

Pediatrics
Rutgers Robert Wood Johnson University Hospital, New Brunswick, NJ
Attending Physician, Division of Pediatric Rheumatology
September 2016-present

Pediatrics
Nemours A.I. duPont Hospital for Children, Wilmington, DE
Attending Physician, Pediatric Rheumatology
July 2014-June 2015

Pediatrics
Nemours A.I. duPont Hospital for Children, Wilmington, DE
Attending Physician, General Pediatrics
January 2012-June 2015

OTHER EMPLOYMENT OR MAJOR VISITING APPOINTMENTS:

Clinical Research Coordinator
Sarcoma Division
Dana-Farber Cancer Institute, Boston, MA
October 2002-June 2004

Technical Research Assistant
Cardiovascular Medicine
Brigham and Women's Hospital, Boston, MA
July 2001-August 2002

PRIVATE PRACTICE: N/A

LICENSURE: *Medical Practice (New Jersey) / 25MA09880700 / June 30, 2017; Medical Practice (Delaware) / C1-0009821 / March 31, 2017*

DRUG LICENSURE:

DEA: FH2921826 / October 31, 2017

CERTIFICATION: *General Pediatrics / #100453 / 2021*
Pediatric Rheumatology / #384 / 2025

MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

International Societies:
International Society for Pharmacoepidemiology
Member
2013-present
Member, Pediatric Special Interest Group
2015-present

National Societies:

American Academy of Pediatrics
Member
2008-present

American College of Rheumatology
Member
2011-present

Childhood Arthritis and Rheumatology Research Alliance
Member
2011-present
Founding Member, Fellows Section Leadership Committee
2012-2014
Co-leader, Juvenile Idiopathic Arthritis Inactive Disease Workgroup
2016-present

Society for Epidemiologic Research
Member
2016-present

Regional Societies:

Massachusetts Medical Society
Member
2004-2009

Pediatric Rheumatology Regional Study Group
Member
2012-2015

HONORS AND AWARDS:

*First Place, Pediatrics Poster Spotlight Session, International Conference on
Pharmacoepidemiology & Therapeutic Risk Management*
International Society for Pharmacoepidemiology
2015

Distinguished Fellow Award
American College of Rheumatology
2014

Marshall J. Schiff, MD Memorial Fellow Research Award
Rheumatology Research Foundation
2014

Pharmacoepidemiology and Drug Safety Best Reviewer
Pharmacoepidemiology and Drug Safety
2014

Fellows-in-Training Annual Meeting Scholarship
American College of Rheumatology
2011-2013

Senior Resident Teaching Award
Children's Hospital of Philadelphia
2011

Donald J. Cohen Fellowship in Child Psychiatry
Harvard Medical School
2005-6

*Traveling Fellowship, Chile Spanish Language and Service Learning Program
Harvard Medical School
2005*

*Magna Cum Laude with Highest Honors, Biology Concentration
Harvard College
2001*

*Harvard College Research Program Award
Harvard College
2000*

*John Harvard Scholarship
Harvard College
1999-2001*

*Harvard College Scholarship
Harvard College
1998*

*National Merit Scholarship
Harvard College
1997-2001*

BOARDS OF DIRECTORS/TRUSTEES POSITIONS: N/A

SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

Ad Hoc Reviewer: L'Agence Nationale de la Recherche (French National Research Agency)

SERVICE ON MAJOR COMMITTEES:

A. National: *Fellows Section Leadership Committee, Childhood Arthritis and Rheumatology Research Alliance, 2012-2014*

B. *Ad Hoc Reviewer: Clinical Rheumatology, Pediatric Rheumatology, Pharmacoepidemiology and Drug Safety*

SERVICE ON GRADUATE SCHOOL COMMITTEES: N/A

SERVICE ON HOSPITAL COMMITTEES:

Quality Improvement, Cytotoxic Medication Toxicity Monitoring and Information Technology, Division of Rheumatology, Nemours A.I. duPont Hospital for Children, 2012-2015

Information Technology Liaison, Pediatrics Residency Program, Children's Hospital of Philadelphia, 2010-2011

SERVICE TO THE COMMUNITY:

Participant, Arthritis Foundation Walk for a Cure, Newark, DE, spring 2015

Participant, Parent Infant Center Seasonal Clean-up, Philadelphia, PA, fall 2014 / spring 2015

TEACHING RESPONSIBILITIES:

A. Lectures or Course Directorships

Nemours A.I. duPont Hospital for Children; Rheumatology Educational Conference; Clostridium difficile infection-associated reactive arthritis, Methotrexate toxicity in juvenile idiopathic arthritis, Mevalonate kinase deficiency, Premedication for infliximab infusions, Rheumatologic manifestations of inflammatory bowel disease, Temporomandibular arthritis, TNF inhibitors and cancer, Vaccines and the immunocompromised; Journal club facilitator (monthly); 1 hour per month, fall 2011-spring 2015

Nemours A.I. duPont Hospital for Children; Pediatric Resident and Medical Student Rheumatology Education; Acute rheumatic fever, Chronic nonbacterial

osteomyelitis, Juvenile dermatomyositis, Juvenile idiopathic arthritis, Hemophagocytic lymphohistiocytosis/macrophage activating syndrome, Lyme disease, Mixed connective tissue disease, Periodic fever syndromes, Orbital pseudotumor, Sarcoidosis, Systemic lupus erythematosus, Tubulointerstitial nephritis and uveitis syndrome, Vasculitis; 0.25 hour per quarter, fall 2011-spring 2015
 Center for Clinical Epidemiology and Biostatistics, Perelman School of Medicine, University of Pennsylvania; Topics in Pharmacoepidemiology / Pharmacoepidemiology Rounds; Case control vs. cohort studies, Effectiveness and confounding by indication, Molecular pharmacoepidemiology, Propensity scores; Journal club facilitator (various); 1 hour per semester, fall 2012-spring 2015
 Jefferson Medical College, Nemours A.I. duPont Hospital for Children; Resident Noon Conference Lecture Series; Limp in children; 1 hour, spring 2012
 Children's Hospital of Philadelphia; Pediatric Medical Student Educational Series; Neonatal examination, Pediatric cardiology cases, Pediatric shelf review; 4 hours, spring 2011
 Children's Hospital of Philadelphia; Pediatric Resident Educational Conference; Congenital adrenal hyperplasia, Hypoventilation and obesity, Incontinentia pigmenti, Pulmonary hemorrhage, Upper respiratory tract infections, pharyngitis, and sinusitis; Journal club: diabetic ketoacidosis, childhood resiliency; Intern report facilitator: lead poisoning, viral encephalitis; 1-2 hours per semester, spring 2008-spring 2011

B. Research Training

Post-Doctoral Students:

Erwin Calgua, MD, July 2013-April 2014 (Tutor, clinical epidemiology)

Pre-Doctoral Students:

Aleksandra Wec, August 2016 - present (Supervisor, clinical research)

Jomaira Salas, January 2016 - present (Supervisor, clinical research)

Beth Savage, January 2016 - July 2016 (Supervisor, clinical research)

Frank Duan, June 2015 - August 2015 (Supervisor, clinical research)

Daniel Weinick, June 2015 - August 2015 (Supervisor, clinical research)

CLINICAL RESPONSIBILITIES:

Pediatric Rheumatology Attending (2016-present): evaluate and treat children, adolescents, and young adults referred for and/or affected by rheumatic and musculoskeletal diseases in the inpatient and outpatient settings at Rutgers Robert Wood Johnson Medical School and Robert Wood Johnson University Hospital; perform inpatient and outpatient consultations.

Pediatric Rheumatology Attending (2014-2015): evaluated and treated children, adolescents, and young adults referred for and/or affected by rheumatic and musculoskeletal diseases in the inpatient, outpatient, and emergency settings at Nemours A.I. duPont Hospital for Children; performed inpatient and outpatient consultations; maintained a primary panel of patients in outpatient rheumatology clinic; performed intra-articular glucocorticoid injections.

General Pediatrics Attending (2012-2015): treated children, adolescents, and young adults in the urgent care and inpatient setting at Nemours A.I. duPont Hospital for Children

GRANT SUPPORT:

A. Principal Investigator

1. *NIH Pediatric Research Loan Repayment Program, 7/1/2016-6/30/2018, \$19,203*
2. *Childhood Arthritis and Rheumatology Research Alliance, 6/1/2016-5/31/2017, \$23,195*
3. *NIH NRSA F32-AR-066461 Individual Postdoctoral Fellowship, 7/22/2014-6/30/2015, \$76,998*

B. Pending

1. *NIH, K23-AR-070286 Mentored Patient-Oriented Research Career Development Award, September 2016-July 2021, \$650,000 over five years (Impact Score 20, award pending)*

PUBLICATIONS:

A. Refereed Original Article in Journal

1. Yang, Yang; Huang, Jianying; Mis, Malgorzata; Estacion, Mark; Macala, Lawrence; Shah, Palak; Schulman, Betsy R.; **Horton, Daniel B.**; Dib-Hajj, Sulayman D.; Waxman, Stephen G.; Nav1.7-A1632G mutation from a family with inherited erythromelalgia: enhanced firing of dorsal root ganglia neurons evoked by thermal stimuli. *Journal of Neuroscience*; 36(28): 7511-22, 2016.
2. **Horton, Daniel B.**; Strom, Brian L.; Putt, Mary E.; Rose, Carlos D.; Sherry, David D.; Sammons, Julia S.; *The epidemiology of Clostridium difficile infection-associated reactive arthritis (CDIAReA) in children: an underdiagnosed, potentially morbid condition*; *JAMA Pediatrics*; 170 (7): e160217, 2016.
3. Scott, Frank I.; **Horton, Daniel B.**; Mamtani, Ronac; Haynes, Kevin; Goldberg, David S.; Lee, Dale Y.; Lewis, James D.; *Administration of Antibiotics to Children Before Age 2 Years Increases Risk for Childhood Obesity*; *Gastroenterology*; 151(1): 120-9, 2016.
4. **Horton, Daniel B.**; Scott, Frank I.; Haynes, Kevin; Putt, Mary E.; Rose, Carlos D.; Lewis, James D.; Strom, Brian L.; *Antibiotic Exposure, Infections, and Pediatric Psoriasis: A Nested Case-Control Study*; *JAMA Dermatology*; 152(2): 191-9, 2016.
5. **Horton, Daniel B.**; Scott, Frank I.; Haynes, Kevin; Putt, Mary E.; Rose, Carlos D.; Lewis, James D.; Strom, Brian L.; *Antibiotic Exposure and Juvenile Idiopathic Arthritis: A Case-Control Study*; *Pediatrics*; 136(2): e333-343, 2015.
6. **Horton, Daniel B.**; Sherry, David D.; Baldassano, Robert N.; Weiss, Pamela W.; *Enthesitis is an extraintestinal manifestation of pediatric inflammatory bowel disease*; *Annals of Paediatric Rheumatology*; 1(4):214-21, 2012.
7. **Horton, Daniel B.**; DeCamp, Marcus M.; Boiselle, Phillip M.; Roberts, David H.; *Chest Film Clinic: What caused an elevated diaphragm in this woman with cough and dyspnea?*; *Journal of Respiratory Diseases*; 28(9):397-404, 2007.
8. Schönbeck, Uwe; Gerdes, Norbert; Varo, Nerea; Reynolds, Rebecca S.; **Horton, Daniel B.**; Bavendiek, Udo; Robbie, Linda; Ganz, Peter; Kinlay, Scott; Libby, Peter; *Oxidized low-density lipoprotein augments and 3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors limit CD40 and CD40L expression in human vascular cells*; *Circulation*; 106(23):2888-93, 2002.
9. **Horton, Daniel B.**; Libby, Peter; Schönbeck, Uwe; *Ligation of CD40 on vascular smooth muscle cells mediates loss of interstitial collagen via matrix metalloproteinase activity*; *Annals of the New York Academy of Sciences*; 947:329-36, 2001.
10. Herman, Michael P.; Sukhova, Galina K.; Libby, Peter; Gerdes, Norbert; Tang, Nga; **Horton, Daniel B.**; Kilbride, Meagan; Breitbart, Roger E.; Chun, Miyoung; Schönbeck, Uwe; *Expression of neutrophil collagenase (matrix metalloproteinase-8) in human atheroma*; *Circulation*; 104:1899-1904, 2001.
11. Lehman, Anne L.; Nakatsu, Yoshimichi; Ching, Ada; Bronson, Roderick T.; Oakey, Rebecca J.; Keiper-Hrynko, Natalie; Finger, Joshua N.; Durham-Pierre, Donna; **Horton, Daniel B.**; Newton, J Michael; Lyon, Mary F.; Brilliant, Murray H.; *A very large protein with diverse functional motifs is deficient in rjs (runty; jerky; sterile) mice*; *Proceedings of the National Academy of Sciences*; 95(16):9436-41, 1998.

B. Books, Monographs and Chapters

1. **Horton, Daniel B.**; Kinsman, Sara B; *Chapter 82 Substance use disorders*; In: *Netter's Pediatrics (Textbook), First Edition*; Florin, Todd A.; Ludwig, Stephen, Editors; pp. 518-521; Elsevier, Philadelphia, PA, 2011.

C. Abstracts

Peer Reviewed Abstracts

1. **Horton, Daniel B.**; Gerhard, Tobias; Strom, Brian L.; *Impact of the black triangle label on prescribing of new drugs in the United Kingdom*; Presented at the *International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Dublin, Ireland, 2016*; abstract #602 (Poster presentation)
2. Collins, Molly; **Horton, Daniel**; Worster, Brooke; *Feasibility of outpatient advance care planning discussions: adventures of a primary care physician*; Presented at the

- American Academy of Hospice and Palliative Medicine Annual Assembly, Chicago, IL, 2016; abstract #S761 (Poster presentation).*
3. **Horton, Daniel B.**; Haynes, Kevin; Denburg, Michelle R.; Thacker, Mihir M.; Rose, Carlos D.; Putt, Mary E.; Leonard, Mary B.; Strom, Brian L.; *Oral glucocorticoid use and osteonecrosis in chronic inflammatory diseases: a population-based cohort study; Presented at the American College of Rheumatology Annual Meeting, San Francisco, CA, 2015; abstract #51681 (Poster presentation).*
 4. **Horton, Daniel B.**; Strom, Brian L.; Putt, Mary E.; Rose, Carlos D.; Sammons, Julia S.; *Clostridium difficile infection-associated reactive arthritis in a pediatric cohort; Presented at the American College of Rheumatology Annual Meeting, San Francisco, CA, 2015; abstract #49614 (Poster presentation).*
 5. **Horton, Daniel B.**; Haynes, Kevin; Denburg, Michelle R.; Thacker, Mihir M.; Rose, Carlos D.; Putt, Mary E.; Strom, Brian L.; *Oral glucocorticoid use and osteonecrosis in chronic inflammatory diseases: a population-based cohort study; Presented at the International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Boston, MA, 2015; abstract #880 (Oral presentation)*
 6. **Horton, Daniel B.**; Scott, Frank I.; Haynes, Kevin; Putt, Mary E.; Rose, Carlos D.; Lewis, James D.; Strom, Brian L.; *Antibiotic exposure and the development of pediatric psoriasis: a population-based case-control study; Presented at the International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Boston, MA, 2015; abstract #797 (Poster presentation)*
 7. Scott, Frank I.; **Horton, Daniel B.**; Mamtani, Ronac; Lee, Dale Y.; Haynes, Kevin; Lewis, James D.; *The impact of antibiotic exposures early in life on childhood obesity; Presented at the International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Boston, MA, 2015; abstract #484 (Poster presentation)*
 8. Eutsler, Eric; **Horton, Daniel**; Epelman, Monica; Averill, Lauren. *Localized scleroderma in children: musculoskeletal MRI findings. Presented at the Society for Pediatric Radiology Annual Meeting; Bellevue; WA; April 2015 (Oral presentation)*
 9. **Horton, Daniel B.**; Scott, Frank I.; Haynes, Kevin; Putt, Mary E.; Rose, Carlos D.; Lewis, James D.; Strom, Brian L.; *Antibiotic exposure and the development of juvenile idiopathic arthritis: a population-based case-control study; Presented at the American College of Rheumatology Annual Meeting, Boston, MA, 2014; abstract #929 (Oral presentation)*
 10. **Horton, Daniel B.**; Strom, Brian L.; Putt, Mary E.; Rose, Carlos D.; Sammons, Julia S.; *Clostridium difficile infection-associated reactive arthritis in a pediatric cohort; Presented at the Pediatric Rheumatology Symposium, Orlando, FL, 2014; abstract #55 (Poster presentation)*
 11. Morgan, Jeffrey A.; George, Suzanne; Desai, Jayesh; St. Amand, Myra; **Horton, Daniel B.**; Wilkins, Erin; Manola, Judith; Demetri, George D.; *Phase II study of gemcitabine/vinorelbine as first or second line chemotherapy in patients with metastatic soft tissue sarcoma; Presented at the American Society of Clinical Oncology Annual Meeting, New Orleans, LA, 2004; abstract #9009 (Poster presentation)*
 12. **Horton, Daniel B.**; Varo, Nerea; LaClair, Samantha J.; Kinlay, Scott; Ganz, Peter; Schönbeck, Uwe; *HMG-CoA reductase inhibitors diminish interstitial collagen turnover in human vascular smooth muscle cells; Presented at the American Heart Association Scientific Sessions, Orlando, FL, 2003; p. 286 (Poster presentation)*

Non Peer Reviewed Abstracts

1. Srygley, Jennifer M.; Hirsh, David A.; Chen, Jennifer Y. ; Du, Yang; **Horton, Daniel B.** ; Kotagal, Meera; Lepp, Anya P.; Seidman, Dominika L.; Zerden, Matthew L.; Zwang, Nicholas A.; Roberts, David H.; *A student-directed learning community: the spontaneous pilot; Presented at Harvard Medical Education Day, Boston, MA, 2007 (Poster presentation)*

PRESENTATIONS:

Scientific:

Drugs, germs, and joints: Antibiotics and juvenile idiopathic arthritis; Department of Pediatrics Ground Rounds, Rutgers Robert Wood Johnson Medical School; New Brunswick, NJ, 2016.
Pharmacoepidemiology of drugs that treat (and cause?) autoimmune diseases; Rutgers Biomedical and Health Sciences; New Brunswick, NJ and Newark, NJ, 2015.
Master's thesis protocol presentation: Oral glucocorticoid use and osteonecrosis in chronic inflammatory diseases; Center for Clinical Epidemiology, Perelman School of Medicine, University of Pennsylvania; Philadelphia, PA, 2013.

Professional:

“Healthcare transition in lupus,” part of provider panel discussion for “Holistic Care and Empowerment of Youth & Adults with Lupus,” a symposium on lupus in minorities for health care providers and community members; Rutgers Robert Wood Johnson Medical School; New Brunswick, NJ, 2016
“Strategies for Success during Research Years of Fellowship.” Member of panel discussion for pediatric rheumatology fellows in the Childhood Arthritis and Rheumatology Research Alliance; Austin, TX, 2015.
Pharmacologic update for juvenile idiopathic arthritis; Nurse Practitioner Pharmacology Conference; Nemours A.I. duPont Hospital for Children; Wilmington, DE, 2012.