

**The Faculty of Medicine of Harvard University  
Curriculum Vitae**

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**Place of Birth:** Boston, MA

**Education**

2005	BA	Honors Biology	Harvard University
2010	MD	Medicine	University of Massachusetts Medical School
2018	MPH	Clinical Effectiveness	Harvard T.H. Chan School of Public Health

**Postdoctoral Training**

07/10-06/11	Intern	Pediatrics	Connecticut Children's Medical Center
07/11-06/13	Resident	Pediatrics	University of Massachusetts Medical Center
07/13-06/16	Fellow	Pediatric Gastroenterology and Nutrition	Massachusetts General Hospital

### **Faculty Academic Appointments**

07/2016-	Instructor	Pediatrics	Massachusetts General Hospital
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### **Appointments at Hospitals/Affiliated Institutions**

7/15-06/16	Graduate Assistant	Pediatrics	Massachusetts General Hospital
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07/16-	Assistant in Pediatrics	Pediatric Gastroenterology & Nutrition	Massachusetts General Hospital
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### **Other Professional Positions**

7/17-	Resident Tutor	Harvard University	10 hours / week
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As a residential tutor and officer of Harvard College, I live in residence and serve the undergraduate community as a Sophomore Advisor, Pre-Medical Advisor, and member of the Leverett House Pre-Med Committee.

### **Committee Service**

#### **Local**

2008-2010	Learning Communities Planning Committee	University of Massachusetts Medical School
2010-2011	Nurse – Resident Workgroup	Connecticut Children’s Medical Center
2013-	Multidisciplinary Family-Centered Rounding: Quality Improvement Team	Massachusetts General Hospital
2016-	Interviewer for candidates Pediatric Residency Program Pediatric Gastroenterology Fellowship	Department of Pediatrics, Massachusetts General Hospital
2017-	Leverett House Pre-Medical Committee	Harvard University
2018-	Frigoletto Committee	Division of Pediatric Gastroenterology, Massachusetts General Hospital
2018-	NASPGHAN Research Committee	North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition

### **Professional Societies**

2005-2011	Massachusetts Medical Society	Member
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2010-2014	American Academy of Pediatrics	Member
2013-	North American Society of Pediatric Gastroenterology, Hepatology, and Nutrition	Member
2015-2016	American Gastroenterological Association	Member

### **Honors and Prizes**

2010	Student Teaching Award	University of Massachusetts Medical School	
2010	New England Pediatric Society Award	University of Massachusetts Medical School	
2011	Teaching and Tomorrow Program	North American Society of Pediatric Gastroenterology, Hepatology, and Nutrition	Travel Grant
2014	Outstanding Teacher Award	MassGeneral Hospital <i>for</i> Children	Awarded by the MGH/C Pediatric Housestaff
2015	Summer Program in Clinical Effectiveness Harvard T.H. Chan School of Public Health	MassGeneral Hospital <i>for</i> Children Research Council	Full scholarship awarded
2016	Young Investigator Travel Grant	World Congress of Pediatric Gastroenterology, Hepatology, and Nutrition	
2018	Finalist	MassGeneral Hospital <i>for</i> Children Pediatric Research Day	Research abstract selected as top 10 finalist, invited to apply for pilot feasibility award
2018	Travel Award	European Academy of Allergy and Clinical Immunology	Travel Award for outstanding Abstract
2018	Outstanding Abstract Award	European Academy of Allergy and Clinical Immunology	For outstanding research and abstract presentation

### **Report of Funded and Unfunded Projects**

#### **Funding Information**

##### **Past**

2014	Improving Pediatric Housestaff, Nurse, and Gastroenterology Subspecialist Communication with Family Centered Multidisciplinary Rounds MassGeneral Hospital <i>for</i> Children Quality and Safety Mini-Grant Co-PI
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The major goal of this QI project was to incorporate the Pediatric Gastroenterology subspecialty team in the pediatric housestaff-led family-centered rounds to improve communication, efficiency, patient care, and patient satisfaction.

#### **Current**

- 2013-2017 Early Risk Factors for Gastrointestinal Mucosal Food Allergies  
Gerber Foundation  
Investigator  
Prospective birth cohort study designed to study early life risk factors for the development of gastrointestinal mucosal food allergic diseases in children, including analysis of the developing microbiome and potentially related non-conventional T lymphocytes.
- 2017- Early Risk Factors for Gastrointestinal Mucosal Food Allergies  
Demarest Lloyd Jr. Foundation  
Investigator  
This study follows a 1000 subject infant cohort from a single pediatric office in a suburb of Boston to identify risk factors for the development of allergic proctocolitis and associated changes in microbiome, metabolome and cellular immunity to food-derived antigens.
- 2017- Food Allergy Science Initiative (FASI)  
Broad Institute  
Investigator  
FASI aims to accelerate the research into this field and enable the development of new diagnostics and treatments through a coordinated effort that brings together specialists from a variety of disciplines including immunology, gastroenterology, microbiology, computational biology, molecular biology and genetics, as well as bioengineering to tackle key questions related to food allergy.

## **Report of Local Teaching and Training**

### **Teaching of Students in Courses**

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|-----------|---------------------------------------|---|
| 2009-2010 | Physical Diagnosis I                  | University of Massachusetts<br>Medical School |
|           | 1 <sup>st</sup> year medical students | One two-hour session/week, eight weeks        |
| 2009-2010 | Patient, Physician, and Society       | University of Massachusetts<br>Medical School |
|           | 1 <sup>st</sup> year medical students | One two-hour session/week, one semester       |

### **Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs)**

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|------|---|--|
| 2014 | Pediatric Crohn's disease<br>Pediatric Residents          | MassGeneral Hospital <i>for</i> Children<br>One-hour lecture |
| 2015 | Pediatric Eosinophilic Esophagitis<br>Pediatric Residents | MassGeneral Hospital <i>for</i> Children<br>One-hour lecture |
| 2016 | Pediatric Lower GI Bleeding                               | MassGeneral Hospital <i>for</i> Children                     |

	3 <sup>rd</sup> year Medical Students	90-minute case conference
2016	Cow's Milk Protein Allergy Pediatric GI Fellows	MassGeneral Hospital <i>for</i> Children One-hour lecture
2017	Outpatient Management of Constipation Pediatric GI Fellows	MassGeneral Hospital <i>for</i> Children One-hour lecture
2017, 2018	Cow's Milk Protein Allergy Pediatric GI Fellows	MassGeneral Hospital <i>for</i> Children One-hour lecture
2018	The Pediatric Microbiome Pediatric GI Fellows	MassGeneral Hospital <i>for</i> Children One-hour lecture

### **Clinical Supervisory and Training Responsibilities:**

2016-	Inpatient Supervision and Clinical Training Pediatric GI Fellows	MassGeneral Hospital <i>for</i> Children Four weeks per year
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### **Formally Mentored Trainee(s):**

2015-	<p>Hannah Seay, Mount Holyoke College Class of 2016</p> <p>I mentored Hannah during her summer in our lab in the 2015 Summer Student Research Program at the Mucosal Immunology and Biology Research Center (MIBRC). In 2016, she stayed on to do thesis research under my direct supervision and her thesis was awarded <i>summa cum laude</i>. She was hired 01/2017 to work full time in our lab as a clinical research coordinator, until she matriculated to the University of Massachusetts Medical School. She has continued to work on her project remotely and is presenting an abstract of her work with me at the AAAAI national meeting in 2019.</p>	
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### **Formal Teaching of Peers (e.g., CME and other continuing education courses)**

*No presentations below were sponsored by outside entities.*

2013	Bones and Crohn's—Chronic Recurrent Multifocal Osteomyelitis in Crohn's disease MassGeneral Hospital <i>for</i> Children, Division of Pediatric Gastroenterology and Nutrition Clinical Conference	Single Presentation Boston, MA
2014	Management of Growth Failure in Pediatric Crohn's Disease MassGeneral Hospital <i>for</i> Children, Division of Pediatric Gastroenterology and Nutrition Clinical Conference	Single Presentation Boston, MA
2014, 2015	Multidisciplinary Family Centered Pediatric GI Rounds: A Quality Improvement Initiative	Two one-hour presentations

### **Local Invited Presentations**

*No presentations below were sponsored by outside entities.*

- 2014            A case of a rectal tonsil; A case of hollow visceral myopathy / Ellison rounds  
Department of Medicine, Massachusetts General Hospital

## **Report of Regional, National and International Invited Teaching and Presentations**

### **Invited Presentations and Courses**

*No presentations below were sponsored by outside entities*

#### **Regional**

- 2013            A case of treatment refractory pediatric Crohn's disease / Case Presentation  
New England Pediatric Inflammatory Bowel Disease (IBD) Conference

#### **National**

- 2011            Evaluation of the use and safety of infliximab in the treatment of pediatric IBD: A  
multicenter registry experience / Oral Presentation of selected abstract  
North American Society of Pediatric Gastroenterology, Hepatology, and Nutrition  
(NASPGHAN) Annual Meeting, Orlando, FL
- 2017            Prospective Incidences and the Relationship between Allergic Proctocolitis and IgE-  
Mediated Food Allergies in Early Childhood / Oral Presentation of selected abstract  
American Academy of Allergy, Asthma & Immunology (AAAAI) Annual Meeting,  
Atlanta, GA
- 2017            More Of Them Than Us: The Pediatric Microbiome / Keynote Speaker at the Infectious  
Diseases in Children Symposium, New York, NY
- 2018            Early Life Risk Factors for Allergic Proctocolitis: The GMAP Healthy Infant Cohort / Oral  
Presentation of Selected Abstract  
North American Society of Pediatric Gastroenterology, Hepatology, and Nutrition  
(NASPGHAN) Annual Meeting, Hollywood, FL

#### **International**

- 2016            Prospective Incidence, Early Life Risk Factors, And The Role Of The Microbiome In  
Allergic Proctocolitis: The GMAP Study / Oral Presentation of selected abstract  
World Congress of Pediatric Gastroenterology, Hepatology, and Nutrition, Montreal,  
Canada

2018 A Prospective Assessment Of Food Protein-Induced Allergic Proctocolitis From The GMAP Healthy Infant Cohort / Oral Presentation of selected abstract Food Allergy and Anaphylaxis Meeting (FAAM), Copenhagen, Denmark

## **Report of Clinical Activities and Innovations**

### **Current Licensure and Certification**

2010- Pediatric Advanced Life Support Certification

2011- Massachusetts State Medical License

2014- Certification, Pediatrics, American Board of Pediatrics

2017- Certification, Subboard of Pediatric Gastroenterology, American Board of Pediatrics

### **Practice Activities:**

2016-	Ambulatory Care	Pediatric Gastroenterology, BWH/MGH Health Care Center, Foxborough, MA	4 sessions / month
2016-	Ambulatory Care	Pediatric Gastroenterology, Blue Hills Medical Center, Braintree, MA	2 sessions / month
2017-	Ambulatory Care	Pediatric Gastroenterology, Center for Feeding and Nutrition, MGH	4 sessions / month
2016-	Endoscopy	Pediatric Endoscopy Unit, MGH	2 sessions / month

## **Report of Scholarship**

### **Peer reviewed publications in print or other media**

#### **Research investigations**

1. Antin JH, Guinan EC, Avigan D, Soiffer RJ, Joyce RM, **Martin VJ**, Molrine DC. Protective antibody responses to pneumococcal conjugate vaccine after autologous hematopoietic stem cell transplantation. *Biology of Blood and Marrow Transplantation*. 2005 Mar; 11(3): 213-222. Cited in PubMed; PMID: 15744240.
2. Srivastava A, Henneke P, Visintin A, Morse SC, **Martin V**, Watkins C, Paton JC, Wessels MR, Golenbock DT, Malley R. The apoptotic response to pneumolysin is toll-like receptor 4 dependent and protects against pneumococcal disease. *Infection and Immunity*. 2005 Oct; 73(10): 6479-6487. Cited in PubMed; PMID: 16177320.

3. **Martin VJ**, Shreffler WG, Yuan Q. Presumed Allergic Proctocolitis Resolves with Probiotic Monotherapy: A Report of 4 Cases. *American Journal of Case Reports*. 2016 Aug; 17:621-4. Cited in PubMed; PMID: 27568925
4. **Martin VJ**, Leonard MM, Fiectner L, Fasano A. Transitioning From Descriptive to Mechanistic Understanding of the Microbiome: The Need for a Prospective Longitudinal Approach to Predicting Disease. *Journal of Pediatrics*. 2016 Dec; 179:240-248. Cited in PubMed; PMID 27634626
5. **Martin VM**, Kleinman RE. Long-term effects of breastfeeding: a "healthier" eating index? *American Journal of Clinical Nutrition*. 2018 Aug; 108(2):209-210. Cited in PubMed; PMID: 30084936
6. **Martin V**, Keet C, Yuan, Q. Antibiotics and Acid-Suppressing Medications in Early Life and Allergic Disorders. *JAMA Pediatrics*. 2018 Oct; 172(10):989-990. Cited in PubMed; PubMed; PMID: 30128574

#### **Research publications without named authorship**

1. Gogtay N, Thatte U, Kshirsagar N, Leav B, Molrine D, Cheslock P, Kapre SV, Kulkarni PS; SII RMaB author group\*. Safety and pharmacokinetics of a human monoclonal antibody to rabies: A randomized, dose-escalation phase I study in adults. *Vaccine*. 2012 Nov; 30(50): 7315-7320. Cited in PubMed; PMID: 23010601. (\*member of investigative team cited within manuscript)

#### **Non-peer reviewed scientific or medical publications/materials in print or other media**

1. **Martin, V.J.**, Remis, D (2010). International Adoption. In F. Domino (Ed) The 5-Minute Clinical Consult 2011, 19<sup>th</sup> Ed (20-21). Philadelphia: Lippincott Williams & Wilkins

#### **Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings**

1. **Martin V**, Wynne K, Baras S, Gluchowski N, Chapin C, Fonseca A, Israel E, Kao, A, Spofford I. Improving communication, education, and discharge timeliness with multidisciplinary family centered pediatric GI rounds: A Quality Improvement Initiative. NASPGHAN Annual Meeting, Atlanta, GA, Oct 23-26, 2014.
2. **Martin V**, Shreffler W, Yuan Q. Presumed Allergic Proctocolitis Resolves with Lactobacillus GG, both as Monotherapy and in Conjunction with Dietary Modification: A Case Series. NASPGHAN Annual Meeting, Washington, DC, October 7-11, 2015.
3. **Martin V**, Elliot C, Keet C, Shreffler W, Yuan Q. Incidence of Allergic Proctocolitis in a Single Primary Care Practice. NASPGHAN Annual Meeting, Washington, DC, October 7-11, 2015.
4. **Martin V**, Virkud Y, Seay H, Keet C, Shreffler W, Yuan Q. Prospective Incidence and Risk of Allergic Proctocolitis: A Birth Cohort Study. Food Allergy Gordon Research Conference, Ventura, CA, January 7-12, 2018.



5. **Martin V**, Virkud Y, Seay H, Keet C, Shreffler W, Yuan Q. Early Life Risk Factors for Allergic Proctocolitis: The GMAP Healthy Infant Cohort. EAACI Food Allergy and Anaphylaxis Meeting, Copenhagen, Denmark, October 18-20, 2018.
6. **Martin V**, Virkud Y, Seay H, Keet C, Shreffler W, Yuan Q. A Prospective Assessment Of Food Protein-Induced Allergic Proctocolitis From The GMAP Healthy Infant Cohort. NASPGHAN Annual Meeting, Hollywood, FL, October 25-27, 2018.

## **Narrative Report**

I was hired as faculty at MGH/C (Assistant) and Harvard Medical School (Instructor) July 1<sup>st</sup>, 2016 upon graduation from fellowship in the Harvard Medical School Pediatric Gastroenterology and Nutrition Program at Massachusetts General Hospital. I am pursuing an independent academic research career in translational and clinical research with a particular interest in pediatric gastrointestinal food allergic diseases. I spend 69% of my time focused on my research, with the remaining 31% spent on clinical care and education.

My pursuit of a career in academic medicine with a strong research focus has been dedicated and sustained. I have demonstrated an interest in scientific investigation throughout my time as an undergraduate, medical student, resident, and fellow. From each project, I have gained invaluable research skills and experience, while producing significant results presented at national meetings and published in peer-reviewed journals. My investigative energy is currently focused on a prospective birth cohort study (which enrolled 1,000 infants over 3 years) designed to examine early risk factors for mucosal food allergies. I am spearheading the processing and analysis of the infant intestinal microbiome longitudinally throughout this study and was invited to orally present our primary outcomes at national and international conferences in both the fields of allergy and gastroenterology. The corresponding first-author manuscript is currently being submitted. Ever eager to learn and grow, I have also embarked on a master's degree program in Clinical Effectiveness at the Harvard T. H. Chan School of Public Health which I completed this summer.

Beyond scientific investigation, I greatly value my role in teaching and education. My awards and honors exemplify my talent as a medical educator and my current position as a Resident Tutor at Harvard College has allowed me to expand my skill set and reach to the undergraduate academic setting. From enacting curriculum re-design as a medical student to re-imagining family-centered rounds as a fellow, my many contributions to the structure and implementation of medical education around me have been long lasting and highly successful. I enjoy teaching and medical education in its many forms—from formal curriculum design, to teaching on the wards, to informal mentorship, to advising young pre-medical minds at Harvard College.

As a junior faculty member, I am working to build my career as a pediatric gastroenterologist with solid foundations in translational research, medical education, and clinical care. My talent as an effective and thoughtful communicator serves me particularly well in all three of these areas. I am a compassionate, driven, and dedicated clinician whose accomplishments extend beyond the bedside, into the laboratory

and the proverbial classroom. I look forward to building an academic career that allows for parallel growth and success in all three of these crucial sectors.