

## Allyson Spence

Curriculum Vitae, Spring 2019

Department of Biology  
Regis University  
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### Education

PhD, University of California, San Francisco (UCSF) 2016

Biomedical Sciences

Project: Regulatory T cell dynamics in mouse autoimmune diabetes

Advisor: Qizhi Tang, PhD

Bachelor of Science, University of Texas, Austin 2010

Microbiology

### Teaching and Professional Experience

**Assistant professor** 2019-present

Regis University

- *Graduate courses:* Immunology, Microbiology & Immunology lab (team/co-taught with Gena Nichols), Biomedical Externship and Ethics

**Program Manager, Researchers** 2017-2018

**Office of Career and Professional Development**

University of California, San Francisco

**Adjunct Faculty** 2017

University of California, Berkeley Extension

- *Post-baccalaureate course:* Immunology

**Adjunct Faculty** 2017

Foothill College

- *Undergraduate course:* Human Genetics

**Adjunct Faculty** 2016

Sonoma State University

- *Undergraduate courses:* Virology, Virology lab

**Adjunct Faculty** 2012-2016

University of San Francisco (USF)

- *Undergraduate courses:* Comparative Animal Physiology (taught 2<sup>nd</sup> half of course), Introduction to Biology I lab, Introduction to Biology II lab, Human Anatomy lab, Microbiology lab

**Graduate Teaching Assistant** 2011

University of California, San Francisco

- *Course for Pharmacy students:* Immunology

## Research Experience

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**Program Manager, Researchers** 2017-2018

### Office of Career and Professional Development

Research mentor: Laurence Clement University of California, San Francisco

- Project: Assessing the teaching philosophies of participants in a pedagogy course taught by our office

**Postdoctoral Research** 2016-2017

**Dissertation Research** 2011-2016

Principal Investigator: Qizhi Tang University of California, San Francisco

- Project: Regulatory T cell dynamics at the site of chronic inflammation in mouse autoimmune diabetes

**Undergraduate Researcher** 2009-2010

Principal Investigator: Scott Stevens University of Texas, Austin

**Undergraduate Researcher** 2009

Principal Investigator: Christoph Wuelfing University of Texas Southwestern

**Undergraduate Researcher** 2007-2010

Principal Investigator: Scott Stevens University of Texas, Austin

Research Mentor: Albert Mackrell

## Grants and Awards

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Travel award for the Western Association of Advisors for the Health Professions (WAAHP) conference

Salt Lake City, UT 2019

National Science Foundation Graduate Research Fellowship

University of California, San Francisco 2012-2015

Travel award for American Association of Immunologists (AAI) annual meeting

University of California, San Francisco Graduate division 2015

Travel award for the Federation of Clinical Immunology Societies (FOCiS) annual meeting, Chicago, IL

2014

Nominated for the Trainee Satellite Symposium

FOCiS annual meeting, Chicago, IL 2014

Summer Research Fellowship

University of Texas Southwestern Medical School 2009

Summer Research Fellowship

University of Texas at Austin 2007 and 2008

## Publications

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*\*denotes mentee*

- **Spence A**, Purtha W, Tam J\*, Dong S, Kim Y\*, Hsin CJ, Sterling T, Nakayama M, Robinson B, Bluestone JA, Anderson M, Tang Q. Revealing the specificity of regulatory T cells in murine autoimmune diabetes. *Proceedings of the National Academy of Sciences* 2018, 115 (20): 5265–70
  - Featured in the Accelerating Cancer Immunotherapy Research (ACIR) weekly newsletter
- Klementowicz JE, Mahne A, **Spence A**, Nguyen V, Satpathy A, Murphy K, Tang Q. Cutting Edge: Origins, Recruitment, and Regulation of CD11c+ Cells in Inflamed Islets of Autoimmune Diabetes Mice. *Journal of Immunology* 2017, 199 (1): 27–32
- **Spence A**, Tang Q. Restoring regulatory T cells for treatment of type 1 diabetes. *Current Diabetes Reports* 2016, 16:110
- **Spence A**, Klementowicz JE, Bluestone JA, Tang Q. Targeting Treg signaling for the treatment of autoimmune diseases. *Current Opinion in Immunology* 2015, 37:11-20

### Manuscripts in submission

- Klementowicz JE, **Spence A**, Nguyen V, Pollack J, Garcia H, Villeda S, Tang Q. Pro-inflammatory function of fibroblastic reticular cells in islets of autoimmune diabetes mice. Manuscript under review

### Manuscripts in preparation

- **Spence A**, Kim Y\*, Tam J\*, Garcia H, Villeda S, Tang Q. Homeostasis of tissue resident Tregs during chronic inflammatory disease. Manuscript in preparation

## Presentations

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### Poster presentations

- **Spence A**, Clement L. Assessing the Teaching Philosophies of Future Faculty. SABER West Conference, UC Irvine, CA January 2018
- **Spence A**, Purtha W, Sterling T, Kim Y\*, Tam J\*, Hsin CJ, Nakayama M, Robinson B, Anderson M, Tang Q. Revealing the specificity of regulatory T cells of the islets in autoimmune diabetes. UCSF/UCB Immunology Retreat, Asilomar, CA September 2016
- **Spence A**, Kim Y\*, Tang Q. Homeostasis and function of antigen reactive Tregs at the site of chronic inflammation. American Association of Immunologists (AAI) Annual Meeting, New Orleans, LA May 2015
- **Spence A**, Kim Y\*, Tang Q. Maintenance of functional Tregs in chronically inflamed tissue. FOCiS meeting, Trainee Satellite Symposium, Chicago, IL June 2014
- **Spence A**, Chou A\*, Tang Q. Regulatory T cell commitment and destabilization in the inflamed islets of NOD mice. UCSF/UCB Immunology Retreat, Asilomar, CA September 2013

- **Spence A**, Chou A\*, Chuang A\*, Tang Q. Regulatory T cell commitment and destabilization in the inflamed islets of NOD mice. Keystone, Whistler, BC April 2013

Selected oral presentations

- Regulatory T cells and autoimmune diabetes. Sonoma State University Colloquium seminar series, Rohnert Park, CA October 2016
- Revealing the specificity of regulatory T cells of the islets in autoimmune diabetes. UCSF/UCB Immunology Retreat, Asilomar, CA September 2016
- Revealing the specificity of regulatory T cells of the islets in autoimmune diabetes. UCSF Diabetes and Obesity retreat, Santa Cruz, CA September 2016
- Regulatory T cell commitment and destabilization in the inflamed islets of pre-diabetic NOD mice. Student Research Talk, UCSF, San Francisco, CA December 2013
- Regulatory T cell commitment and destabilization in the inflamed islets of pre-diabetic NOD mice. Keystone Meeting, Whistler, BC April 2013
- T cell Receptor Sequencing to examine repertoire of polyclonal T populations involved in autoimmune disease progression. UCSF Diabetes research group retreat, November 2012
- Regulatory T cell subsets in inflamed islets of pre-diabetic NOD mice. UCSF/UCB Immunology Retreat, Asilomar, CA September 2012

**Regis University Service**

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*Regis College*

Pre-Med/Health Advisor 2019-present

*Regis College*

Alpha Epsilon Delta (AED)  
Colorado Gamma chapter advisor 2019-present

*Regis College, Department of Biology*

Admissions committee  
Master of Science in Biomedical Sciences Program 2019-present

*Regis College, Department of Biology*

Scholarship weekend: Science lab experiences 2019

**Service to Science Community**

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*Abstract reviewer:*

- SABER National conference, 2019
- SABER National conference graduate student/postdoctoral travel awards, 2019
- SABER National conference, 2018
- SABER West 2019 conference, 2018

*Journal reviewer:*

- Journal of Biology & Microbiology Education (JMBE) 2018-present

*Panelist:*

- Graduate Pathways to STEM, PhD Career Panel, Stanford University, Palo Alto, CA, 2018
- PhD Pathways conference, University Administration Panel, Stanford University, Palo Alto, CA, 2018
- UCSF Teaching Assistant Training, UCSF, CA, 2014
- Recruitment panelist, Q&A, UCSF, CA, 2014

**Community Service**

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- Mock interviewer, City College of San Francisco (CCSF) Biosymposium, UCSF, CA, 2018
  - Interviewed CCSF students and provided them feedback during a practice job interview for a laboratory technician position
- Volunteer, Bay Area Science Festival Discovery Day Event, AT&T Park, CA, 2016
  - Participated in event setup and ran the “Senses” booth where our ability to smell, hear, and touch were investigated (K-12 students)
- Volunteer, Bay Area Science Festival Contra Costa Discovery Day, Cal State East Bay-Concord, CA, 2016
  - Ran the “Forensic science” booth where use forensic evidence is used to identify a thief in a fictitious case (K-12 students)
- Recruitment host and student guide for graduate program interviews, UCSF, CA, 2011 and 2012
- Officer, Tau Beta Sigma service organization to the Longhorn Marching Band, Austin, TX, 2008-2010
- Member, Tau Beta Sigma service organization to the Longhorn Marching Band, Austin, TX, 2007-2010
- Judge, Lockhart High School colorguard tryouts, Lockhart, TX, 2010
- Service, judging and preparing high school students for music competition, Austin TX, 2008-2010
- Volunteer, St. David’s Hospital Women’s Clinic, Austin, TX, 2009
- Volunteer, Habitat for Humanity, Austin, TX, 2008

**Professional Society Memberships**

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National Association of Advisors for the Health Professions (NAAHP) 2019-present  
Society for the Advancement of Biology Education Research (SABER) 2019-present  
American Society for Microbiology (ASM) 2017-2018  
American Association for the Advancement of Science (AAAS) 2014-2019  
Graduate Career Consortium 2017-2018  
American Association of Immunologists (AAI) 2015-2016  
Federation of Clinical Immunology Societies (FOCiS) 2013-2015