# **Abigail Pajulas**

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<b>EDUCATION</b>	
2018 -present	Ph.D. Candidate in Microbiology and Immunology
	Indiana University, Purdue University – Indianapolis
2014-2018	B.S. in Exercise Science - Honors
	California State University, Northridge (CSUN)
ACADEMIC H	ONORS & AWARDS
May 2022	AAI Trainee Abstract Awardee
	Awarded \$750 to present at a Block Symposium and poster presentation at AAI Immunology 2022 in Portland, Oregon
March 2022	<b>Toastmasters International Area level - International Speech Contest - Runner</b>
	<b>up</b> Delivered a 5-7 minute speech at the area level
February 2022	SACNAS CareerCon Participation Recipient
2019 – present	T32 Predoctoral Fellowship Recipient, T32 AI060519 Immunology and Infectious
	Disease Training Program, IU School of Medicine
2014 - 2018	Undergraduate Dean's List Honors, CSUN
	GPA >3.5 (4.0 scale) in 12 graded classes
2014 - 2018	General Education Honors Program, CSUN
2016 - 2018	NIH Maximizing Access to Research Careers (MARC) Fellowship
	Undergraduate Student Training in Academic Research (U-STAR), CSUN
2017	SACNAS – Travel Scholarship
	Society for Advancing Chicanos/Hispanics & Native Americans in Science. The
	scholarship included conference registration, round-trip flight, and lodging (approximately \$1,500).
2017	• • • •
2017	University of Colorado, Denver – Anschutz Medical Campus – Graduate
	Experiences for Multicultural Students The GEMS program, a highly competitive summer research program, provided a
	rigorous biomedical research training opportunity with close mentoring for 10
	weeks. The program also awarded scholars with a \$4,000 stipend.
2017	Presidential Scholarship Award
2017	This \$10,000 scholarship awarded undergraduate students the opportunity to work
	with faculty mentors on significant projects for one year. It is reserved for Cal State
	Northridge undergraduates who have earned at least 60 units with a 3.5 GPA.
2015	Promising Sophomore Award – Asian-American Studies, CSUN
2014	Associated Students Scholarship, CSUN
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Awarded \$2,000 to students with >3.5 GPA, a statement of purpose and 2 letters of

## ACADEMIC APPOINTMENTS

recommendations.

2019-present	Graduate Research Assistant  Department of Microbiology and Immunology – IUPUI, Mark Kaplan Ph.D  Investigated the role of T helper 9 cell-mediated mast cell expansion and function in
F 11 2010	immediate hypersensitivity reactions.
Fall 2018	Graduate Research Rotation  Department of Microbiology and Immunology – IUPUI, Haitao Guo, Ph.D.
	Investigated the role of Hepatitis B virus precore and core protein's effects on
	cccDNA stability and/or transcription.
Fall 2018	Graduate Research Rotation
	Department of Microbiology and Immunology – IUPUI, Frank Yang, Ph.D.
	Screened for phenotypical and transcriptional mutations from a transposon mutant
2017 2010	library to find important sites for OspC expression in <i>Borrelia burgdoerferi</i> .
2017 - 2018	Undergraduate Research Assistant- MARC U-STAR Scholar
	Department of Microbiology – CSU Northridge, Sean Murray, Ph.D.
	Investigated the role of PhaA, PhaB, and PhaC in promoting (p)ppGpp accumulation in <i>Caulobacter crescentus</i>
Summer 2017	Undergraduate Research Assistant – GEMS Intern
Summer 2017	Department of Microbiology – UC Denver, Stefan Pukatzki, Ph.D.
	Examined the role of toxin-coregulated pilus on <i>Vibrio cholerae</i> and its effects on
	type VI secretion system by using killing assays with Escherichia coli.
2016 - 2018	Undergraduate Research Assistant, Center of Achievements – Brown Center,
	Department of Kinesiology – CSU Northirdge, Taeyou Jung, Ph.D.
	Analyzed Brain Activity using fNIR During Dual Task Walking in Individuals with
	Parkinson's Disease
Fall 2016	Undergraduate Teacher's Assistant
2016 2010	Introduction to Gerontology, Department of Psychology – CSUN
2016 - 2018	Undergraduate Research Assistant & Lab Coordinator
	Department of Psychology – CSU Northridge, Luciana Laganá, Ph.D.
	Assessed the impact of anti-bias films on reducing stereotypes and increasing empathy towards discriminated minorities
	company towards discriminated minorities

#### **PUBLICATIONS**

\* Principal Investigator

- Ulrich BJ\*, Kharwadkar R\*, Chu M, **Pajulas A**, Muralidharan C, Koh B, Fu Y, Gao H, Hayes TA, Goplen NP, Nelson AS, Liu Y, Linnemann A, Licona-Limón P, Flavell RA, Sun J, and Kaplan MH.\* IL-9 is required for multi-cytokine producing tissue-resident memory CD4+ T cell-dependent allergic airway recall responses. *Science Immunology*. 2022
- Fu Y\*, Wang J, Zhou B, Gao H, Zhou H, Fisher AJ, Omstead D, Khan S, Han L, **Pajulas A**, Renauld JC, Paczesny S, Liu Y, Yang L, Tighe RM, Licona-Limón P, Flavell RA, Takatsuka S, Kitamura D, Sun J, Bilgicer B, Sears CR, Yang K, Kaplan MH.\* Pulmonary interstitial macrophages are required to mediate the pro-tumorigenic effects of IL-9. *Manuscript in revision for Nature Commun.*.
- Fu Y\*, Wang J, Zhou B, Gao H, Ramdas B, Koh B, Ulrich BJ, Yang S, **Pajulas A**, Kapur R, Renauld JC, Paczesny S, Liu Y, Tighe RM, Licona-Limon P, Flavell RA, Takatsuka S, Kitamura D,

- Tepper RS, Sun J, Kaplan MH.\* An IL-9-pulmonary macrophage axis defines the allergic lung inflammatory environment. *Science Immunology*. 2022
- Wang J\*, **Pajulas A\***, Fu Y, Adom J, Zhang W, Nelson AS, Kaplan MH\*. T cell-mediated wound healing is diminished by allergic skin inflammation. *Manuscript in revision for the Journal of Investigative Dermatology*.

### **PRESENTATIONS**

\* Principal Investigator Presenter

- <u>Pajulas, A.</u> and Kaplan, M. (2022, May). *Th9-derived IL-9 promotes CCR2-dependent mast cell accumulation in the allergic lung.* Poster accepted for oral and poster presentation at American Association of Immunologist Annual Meeting, Portland, Oregon.
- <u>Pajulas, A.</u> and Kaplan, M. (2021, May). *Generation of mice with a conditional Il9 allele*. Poster accepted for presentation at American Association of Immunologist Annual Meeting, Virtual Conference.
- <u>Pajulas, A.</u> and Kaplan, M. (2020, October). *Elucidating the Role of IL-9 Secreting CD4+ T Helper Cells in Promoting Mast Cell Expansion in Pulmonary Models of Inflammation*. Poster accepted for oral presentation at SACNAS Conference, Virtual Conference.
- <u>Pajulas, A.</u> and Kaplan, M. (2019, May). The role of IL-9 secreting CD4+ T helper cells in promoting mast cell expansion in pulmonary models of inflammation. Poster accepted for presentation at the American Association of Immunologist Annual Meeting, Honolulu, HI. Meeting cancelled due to COVID-19.
- <u>Pajulas, A., Rocha, A., Stott, K., Bueno, D., Schreiner, S., Arvizu, I., Vu, S., and Murray, S. (2018, March).</u> Identification of genes essential for PHB Biosynthesis in *Caulobacter crescentus*. Poster accepted for presentation at the Annual Bay Area Microbial Pathogenesis Symposium, San Francisco, CA.
- Lagana, L.\*, Mamikonian-Zarpas, A., S., Balian, O., <u>Valencia, Y.E.</u>, and <u>Pajulas, A.</u> (2018, August). Assessment Strategies Targeting the Risk of Falling in Older Age: A Literature Review. Poster accepted for presentation at the American Psychological Association, San Francisco, CA.
- Lagana, L.\*, Nakhla, M., Chavez, S., Balian, O., Grewe, D., and Pajulas, A. (2018, April). A Literature Review on How to Improve Attitudes towards Individuals with Physical Impairments. Poster accepted for presentation at the 98<sup>th</sup> Annual Convention of the Western Psychological Association, Portland, Oregon.
- **Pajulas, A.,** Anderegg, A., and Pukatzki, S. (2017, October). Bacterial Competition: Difference in the translocation of effector proteins from *Vibrio cholerae* to *Escherichia coli*. Poster accepted for presentation at the Society for Advancement of Chicanos and Native Americans in Science, Salt Lake City, UT.

- Lagana, L.\*, Arellano, K., Zacarias, A., <u>Pajulas, A.,</u> and Martinez, M. (2017, March). Comparing Diabetic & Healthy Older Women on Desire to Improve Health, Health Screening Behaviors, & Cognitive Functioning. Poster session accepted for presentation at 38<sup>th</sup> Annual Meeting and Scientific Sessions of the Society of Behavioral Medicine, San Diego, CA.
- Sholl, K., Lagana, L.\*, Gavrilova, L., <u>Pajulas, A.</u>, Zacarias, A., & Martinez, M. (2017, April). Changes in young adults' LGBT-related attitudes, knowledge, and empathy after viewing an LGBT documentary. Poster accepted for presentation at the 97<sup>th</sup> Annual Convention of the Western Psychological Association, Sacramento, CA.

### PROFESSIONAL APPOINTMENTS

### 2021-present President, Communicators at IUPUI (Toastmasters International)

- 2020-2021 VP of Education (Awarded President's Distinguished Club)
- 2019-2020 VP of Public Relations (Awarded President's Distinguished Club)

### 2021-present President, SACNAS at IU School of Medicine

- 2020-2021 President
- 2019-2020 Vice-President

#### **MEMBERSHIPS**

Member, Society for the Advancement of Chicanos/Hispanics and Native Americans in Science

Member, American Association of Immunologists

Member, Association of American University Women

Member, Kappa Omicron Nu International Honor Society Member, CSU Northridge

### STUDENT MENTORING\_

Spring 2021 Matthew Austin – MD/PhD Student Summer 2020 Jeffrey Bloodworth – PhD Student

### SERVICE AND OUTREACH

2021	IBMG Recruitment and Outreach - Attend SACNAS Meeting
2021	1st year IBMG Student Info Session - Think Talk Study
2020	SACNAS – Panelist for Diversity Conference Mini-Symposium
2020	IBMG Recruitment and Outreach - Attend SACNAS Meeting
2020	1st year IBMG Student Info Session - Think Talk Study
2019	SACNAS – Graduate Student Panel Discussions for Undergraduates
2019	1st year IBMG Student Info Session - Think Talk Study