

# Sriya T. Jonnakuti

## Education

---

Vanderbilt University, Nashville, TN (2020-2024)

Dean's List, 3.91/4.00 GPA

## Honors and Awards

---

1. Hack4Rare Children's Tumor Foundation Rare Disease Hackathon 2<sup>nd</sup> Place Award and \$6000 incubation prize (2022)
2. Second Degree Black Belt Diploma (2019)
3. National AP Scholar (2019)
4. Girl Scout Gold Award (2019); see below for more details
5. College Scholars Program (2021)

## Publications

---

1. Philip, M., Rudloff, M., Zumbo, P., Favret, N., Roetman, J., Detres Roman, C., Erwin, M., **Jonnakuti, S.**, & Dündar, F. (2022). Epigenetic encoding of T cell dysfunction is enacted within hours of tumor antigen encounter prior to cell division. <https://doi.org/10.21203/RS.3.RS-1927273/V1>
2. Akbar, A., Pillalamarri, N., **Jonnakuti, S.**, & Ullah, M. (2021). Artificial intelligence and guidance of medicine in the bubble. *Cell & Bioscience*, *11*(1). <https://doi.org/10.1186/S13578-021-00623-3>
3. Pillalamarri, N., Abdullah, Ren, G., Khan, L., Ullah, A., **Jonnakuti, S.**, & Ullah, M. (2021). Exploring the utility of extracellular vesicles in ameliorating viral infection-associated inflammation, cytokine storm and tissue damage. *Translational Oncology*, *14*(7). <https://doi.org/10.1016/J.TRANON.2021.101095>
4. Ullah, M., Liu, D. D., Rai, S., Dadhania, A., **Jonnakuti, S.**, Concepcion, W., & Thakor, A. S. (2020). Reversing Acute Kidney Injury Using Pulsed Focused Ultrasound and MSC Therapy: A Role for HSP-Mediated PI3K/AKT Signaling. *Molecular Therapy. Methods & Clinical Development*, *17*, 683–694. <https://doi.org/10.1016/J.OMTM.2020.03.023>

## Posters and Presentations

---

1. **Jonnakuti, Sriya**; Ullah, Mujib. *Anti-Aging Protein CD9 Affects Age-Related Heart Failure*. The Gerontological Society of America Annual Meeting, Austin, Texas, 2019 (Poster, Presentation)
2. **Jonnakuti, Sriya**; *Using Genetic Engineering to Improve Biofuel Extraction from Microalgae*. Bioengineering Honors Society Championship, Berkeley, California, 2019 (Poster, Presentation)
  - Biological Engineering Honorable Mention
3. **Jonnakuti, Sriya**; Ullah, Mujib. *The Effect of Overexpression of Anti-Aging Genes by Stem-Cell Derived Exosomes on Chronic Kidney Disease Progression*. Synopsys Silicon Valley Science and Technology Championship, San Jose, California, 2019 (Poster, Presentation)
4. **Jonnakuti, Sriya**. *The Effect of Different Pollutant Adsorbents on Formaldehyde Concentration in the Air*. Synopsys Silicon Valley Science and Technology Championship, San Jose, California, 2018 (Poster, Presentation)
5. **Jonnakuti, Sriya**. *The Patterns of Exon Gene Mutations in Key Diseases in Specific Organs*. Synopsys Silicon Valley Science and Technology Championship, San Jose, California, 2017 (Poster, Presentation)

## Extracurricular Activities

---

1. **Marie Harrison Foundation**, San Francisco, CA (Summer 2023)
  - Research Intern, 20 hrs/week, 15 wks/year
  - Collaborated on multidisciplinary team, analyzing health disparity data using R Studio.
  - Identified patterns, informing evidence-based insights.
  - Aided policy formulation to address inequalities, focusing on climate, health, and equity intersections.
2. **Baylor College of Medicine, Yalamanchili Lab**, Remote Work (Summer 2023)
  - Research Intern, 10 hrs/week, 15 wks/year
  - Collaborated closely with team members to analyze data using specialized software and tools.
  - Played a pivotal role in identifying trends and patterns within datasets, contributing to research insights.
3. **Vanderbilt University, Philip Lab**, Nashville, TN (2020-Present)
  - Research Intern, 5 hrs/week, 40 wks/year
  - Present literature at weekly journal club meetings, develop summer research project with a mentor, attend lab meetings
4. **Stanford University, Thakor Lab**, Palo Alto, CA (2018-2020)
  - Research Intern, 40 hrs/wk, 12 wks/yr
  - Assisted Ph.D. mentor, designed and led own experiments, edited scientific manuscripts, presented at lab meetings, and taught incoming interns.
5. **Sunnyvale Martial Arts Academy**, Sunnyvale, CA (2012-2020)
  - 1<sup>st</sup> degree black belt (2017); 2<sup>nd</sup> degree black belt (2019), BKJN Assistant Instructor (2019) 4 hrs/wk, 40 wks/yr
  - Attended classes and assisted instructors in teaching white-belt classes for children.
6. **Girl Scouts of Northern California**, Los Altos, CA (2012-2020)
  - Senior Girl Scout and Troop Leader, 2 hrs/wk, 40 wks/yr
  - Attended meetings; participated in team-building activities and community service events; welcomed incoming girl scouts; and collected, organized, and allocated troop funds.
7. **El Camino Hospital Mountain View**, Mountain View, California (2016-2020)
  - Junior Volunteer and Shift Captain, 4 hrs/wk, 40 wks/yr
  - Transported patients to and from the hospital, delivered important lab samples, and guided incoming visitors to their destinations.
8. **Sunday Friends**, San Jose, CA (2018-2020)
  - Rent-Relief Program Volunteer, 4 hrs/wk, 4 wks/yr
  - Communicated with Spanish-speaking families to help them earn housing vouchers.
  - Oversaw distribution and collection of vouchers and helped families translate voucher-claiming essays into English.
9. **Stanford University, Science, Technology, and Medicine Summer Program**, Stanford, CA (2019)
  - Program Participant, 30 hrs/wk, 2 wks/yr
  - Attended lectures by Stanford residents and workshops about empathy and patient engagement.
  - Worked with multiple sclerosis patient to improve quality of her speaking aid.
  - Participated in anesthesiology simulations
10. **Leader of CPR-Awareness Initiative** (2018-2019)
  - Creator and Coordinator, 10 hrs/wk, 20 wks/yr
  - Partnered with groups such as the American Red Cross for trainers and supplies, the American Legion for volunteers and participants, and the Los Altos City Council for unique opportunities such as an annual booth at the Los Altos Emergency Preparedness Fair
  - Provided CPR Certifications to over 200 community members