Christopher T. Lee, Ph.D.

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EMPLOYMENT.

Assistant Professor

Dept. Molecular Biology, University of California San Diego

July 1, 2024 - Present

San Diego, CA

Kavli Institute of Brain and Mind Postdoctoral Scholar

University of California San Diego

H June 1, 2019 - June 30, 2024

San Diego, CA

Advisors: Padmini Rangamani 🗗 & Michael Holst 🗹

- Kayli Institute of Brain and Mind Postdoctoral Fellow 2022–2024
- Hartwell Foundation Postdoctoral Fellow 2019–2021
- Developing a multiscale modeling framework to animate the interactions of systems of molecules in virtual synapses featuring physiologically-derived geometries.
- Developed biological mesh generation tool GAMer to convert structural images into finite elements compatible mesh geometries.

EDUCATION

Ph.D. Chemistry

University of California San Diego

2013 - 2019

San Diego, CA

Advisors: Rommie E. Amaro 🗗 & J. Andrew McCammon 🗗

Dissertation: C. T.-K. Lee. "Forging Pathways to Enable Multiscale Modeling of Cellular Scale Phenomena". PhD Dissertation. La Jolla, CA: University of California San Diego, May 1, 2019 [2]

- Predictions of passive membrane permeability using physical properties estimated from molecular dynamics simulations
- Developed simplicial complex data structure CASC to support robust mesh generation codes for electrostatics calculations
- Applied enhanced sampling techniques to predict protein and ligand binding dynamics

Computational Physiology Summer Course 2

Simula Research Laboratory/Universitetet i Oslo/UCSD

Oslo, Norway

 Investigated the affects of drugs on ion channels and the subsequent impact on cellular action potentials using mathematical modeling

M.Sc. Chemistry with a Concentration in Biochemistry

University of Virginia

2011 - 2013

♦ Charlottesville, VA

Advisors: Linda Columbus 🗗 & Cameron Mura 🗗

Thesis: C. T.-K. Lee. "Broad Specificity of a Zinc-dependent Small Alcohol Dehydrogenase from Thermotoga Maritima Involved in the Glycerol Dismutation Pathway". MSc Thesis. Charlottesville, VA: University of Virginia, May 1, 2012. DOI: 10.18130/V3FD40

B.Sc. Chemistry & B.A. Computer Science

University of Virginia

2007 - 2011

♀ Charlottesville, VA

Advisor: Michael Shirts

Created the initial prototype of Intermol
 ☐: a molecular simulation structure, topology, and parameter conversion software

HONORS, AWARDS & FELLOWSHIPS

>Fellowships:

2022-2023	KIBM Postdoctoral Scholar ☐ (\$50k/year × 2)	Kavli Institute of Brain and Mind
2019-21	Hartwell Foundation Postdoctoral Fellowship (\$100k)	The Hartwell Foundation
2018	Distinguished Graduate Fellowship ♂	UCSD Chem/Biochem
2017 - 2018	San Diego Diversity Fellowship	UCSD
2017	Simula Computational Physiology Scholarship	Simula
2014-16	Molecular Biophysics Training Program (NIH T32 GM008326)	UCSD
2011	NBCR Summer Institute Travel Award	NBCR
>Honors:		
2019	Postdoc. Appreciation Award 🖸	UCSD OPRSA
2019	Schmidt Science Fellows Finalist 🗹	Schmidt Futures
2017	Scholarship for Scientific Excellence ♂	American Chemical Society CINF
2017	Biophysical Society Travel Award	Biophysical Society
2017	Bruno Zimm Award 🗹	UCSD Chem/Biochem
2017	Carol & George Lattimer Award 🖸	UCSD Division of Physical Sciences
2017	NSF Innovation Corps	UCSD
2015	Best Poster	UCSD MBTG Annual Retreat
Sp. 2014	Teaching Assistant Excellence Award	UCSD Chem/Biochem
2012	UCSD SHORE Award	UCSD

PUBLICATIONS _

2011

Mead Scholar

>Submitted and In Preparation

- [-] K. Venkatraman, C. T. Lee, and I. Budin[#]. "Setting the curve: the biophysical properties of lipids in mitochondrial form and function" (Aug. 26, 2024). *Submitted*.
- [-] E. A. Francis[†], J. Laughlin[†], J. S. Dokken, H. Finsberg, **C. T. Lee**, M. E. Rognes[#], and P. Rangamani[#]. "Spatial Modeling Algorithms for Reactions and Transport (SMART) in Biological Cells" (May 25, 2024). *Submitted*. Preprint: BioRxiv 2.

>Peer-Reviewed

- [1] J. M. Griswold, M. Bonilla-Quintana[†], R. Pepper[†], **C. T. Lee**[†], S. Raychaudhuri, S. Ma, Q. Gan, S. Syed, C. Zhu, M. Bell, M. Suga, Y. Yamaguchi, U. V. Nägerl, G. Knott, P. Rangamani[#], and S. Watanabe[#]. "Membrane mechanics dictate axonal morphology and function". *Nature Neuroscience* (July 1, 2024). *in press*. Preprint: BioRxiv ..."
- [2] **C. T. Lee**, M. Bell, M. Bonilla-Quintana, and P. Rangamani[#]. "Biophysical modeling of synaptic plasticity". *Annual Review of Biophysics* 53.1 (Feb. 21, 2024). DOI: 10.1146/annurev-biophys-072123-124954.
- [3] K. Venkatraman, C. T. Lee[†], G. C. Garcia[†], A. Mahapatra[†], G. Perkins, K.-Y. Kim, H. A. Pasolli, S. Phan, J. Lippincott-Schwartz, M. Ellisman, P. Rangamani[#], and I. Budin[#]. "Cristae formation is a mechanical buckling event controlled by the inner membrane lipidome". *The EMBO Journal* 42.24 (Dec. 11, 2023), e114054. DOI: 10.15252/embj.2023114054. Preprints: BioRxiv 7, PMC: 10054968.
- [4] J. G. Laughlin, J. S. Dokken, H. N. T. Finsberg, E. A. Francis, **C. T. Lee**, M. E. Rognes, and P. Rangamani[#]. "SMART: Spatial Modeling Algorithms for Reaction and Transport". *Journal of Open Source Software* 8.90 (Oct. 19, 2023), p. 5580. DOI: 10.21105/joss.05580. Preprint: arXiv: 10.48550/arXiv.2306.07368 [q-bio].
- [5] H. Nakamura[#], E. Rho, **C. T. Lee**, K. Itoh, D. Deng, S. Watanabe, S. Razavi, H. T. Matsubayashi, C. Zhu, E. Jung, P. Rangamani, S. Watanabe, and T. Inoue[#]. "ActuAtor, a Listeria-inspired molecular tool for generating force in living cells: Controlled deformation of intracellular organizations". *Cell Reports* 42.10 (Sept. 20, 2023), p. 113089. DOI: 10.1016/j.celrep.2023.113089. Preprint: PMC: 10872831.
- [6] F. Yuan, C. T. Lee, J. Houser, A. Sangani, L. Wang, E. Lafer, P. Rangamani*, and J. Stachowiak. "The ins and outs of membrane bending by intrinsically disordered proteins". *Science Advances* 9.27 (July 7, 2023), eadg3485. DOI: 10.1126/sciadv.adg3485. Preprints: BioRxiv 7, PMC: 10328403.
- [7] M. K. Bell, **C. T. Lee**, and P. Rangamani[#]. "Spatiotemporal Modelling Reveals Geometric Dependence of AMPAR Dynamics on Dendritic Spine Morphology". *The Journal of Physiology* 601.15 (Nov. 23, 2022), pp. 3329–3350. DOI: 10.1113/JP283407. Preprints: BioRxiv 7, PMC: 9280073.
- [8] C. Zhu, C. T. Lee*, and P. Rangamani*. "Mem3DG: An open-source software framework for 3-D membrane mechanochemical dynamics using discrete differential geometry on triangulated meshes". *Biophys. Reports* 2.3 (Sept. 14, 2022), p. 100062. DOI: 10.1016/j.bpr.2022.100062. Preprints: BioRxiv [3], PMC: 9495267.

UVA Comp. Bio.

[†] denotes equal contribution, # denotes corresponding author.

- [9] I. López-Peña, **C. T. Lee**, J. J. Rivera, M. J. Tauber, and J. E. Kim[#]. "Role of the Triplet State and Protein Dynamics in the Formation and Stability of the Tryptophan Radical in an Apoazurin Mutant". *J. Phys. Chem. B* 126 (Aug. 17, 2022). DOI: 10.1021/acs.jpcb.2c02441. Preprint: PMC: 9483921.
- [10] M. K. Bell[†], M. V. Holst[†], **C. T. Lee**, and P. Rangamani[#]. "Dendritic Spine Morphology Regulates Calcium-Dependent Synaptic Weight Change". *J. Gen. Physiol.* 154.8 (July 1, 2022), e202112980. DOI: 10.1085/jgp.202112980. Preprints: BioRxiv , PMC: 9280073.
- [11] J. L. Gan, D. Kumar, C. Chen, B. C. Taylor, B. R. Jagger, R. E. Amaro[#], and **C. T. Lee**[#]. "Benchmarking Ensemble Docking Methods in D3R Grand Challenge 4". *J. Comput. Aided. Mol. Des.* 36.2 (Feb. 1, 2022), pp. 87–99. DOI: 10.1007/s10822-021-00433-2. Preprints: BioRxiv ☑, PMC: 8907095.
- [12] R. Mendelsohn[†], G. C. Garcia[†], T. M. Bartol, **C. T. Lee**, P. Khandelwal, E. Liu, D. J. Spencer, A. Husar, E. A. Bushong, S. Phan, G. Perkins, M. H. Ellisman, A. Skupin, T. J. Sejnowski[#], and P. Rangamani[#]. "Morphological Principles of Neuronal Mitochondria". *J. Comp. Neurol.* 530.6 (Nov. 1, 2021), pp. 886–902. DOI: 10.1002/cne.25254. Preprints: BioRxiv , PMC: 8831469.
- [13] **C. T. Lee**, M. Akamatsu, and P. Rangamani[#]. "Value of Models for Membrane Budding". *Curr. Opin. Cell Biol.* 71 (Aug. 1, 2021), pp. 38–45. DOI: 10.1016/j.ceb.2021.01.011. Preprint: PMC: 8328869.
- T. Hempel, M. J. del Razo[†], **C. T. Lee**[†], B. C. Taylor[†], R. E. Amaro[#], and F. Noé[#]. "Independent Markov Decomposition: Towards modeling kinetics of biomolecular complexes". *Proc. Natl. Acad. Sci.* 118.31 (July 28, 2021). DOI: 10.1073/pnas.2105230118. Preprints: BioRxiv 7, PMC: 8346863.
- [15] R. Vasan, M. P. Rowan, C. T. Lee, G. R. Johnson, P. Rangamani, and M. Holst*. "Applications and Challenges of Machine Learning to Enable Realistic Cellular Simulations". Front. Phys. 7 (Jan. 21, 2021). DOI: 10.3389/fphy.2019.00247. (2019 Frontiers in Physics Editors Choice). Preprint: arXiv: 1911.05218 [physics.bio-ph].
- [16] **C. T. Lee**[†], J. G. Laughlin[†], N. Angliviel de La Beaumelle, R. E. Amaro, J. A. McCammon, R. Ramamoorthi, M. J. Holst, and P. Rangamani[#]. "3D Mesh Processing Using GAMer 2 to Enable Reaction-Diffusion Simulations in Realistic Cellular Geometries". *PLOS Comp. Biol.* 16.4 (Apr. 6, 2020), e1007756. DOI: 10.1371/journal.pcbi.1007756. Preprints: arXiv: 1901.11008 [q-bio.QM], BioRxiv C, PMC: 6716611.
- [17] C. T. Lee*, J. G. Laughlin, J. B. Moody, R. E. Amaro, J. A. McCammon, M. J. Holst, and P. Rangamani*. "An Open Source Mesh Generation Platform for Biophysical Modeling Using Realistic Cellular Geometries". *Biophys. J.* 118.5 (Mar. 10, 2020), pp. 1003–1008. DOI: 10.1016/j.bpj.2019.11.3400. Preprints: arXiv: 1909.04781 [physics.comp-ph], BioRxiv , PMC: 7063475.
- [18] **C. T. Lee**^{†#}, J. B. Moody[†], R. E. Amaro, J. A. Mccammon, and M. J. Holst. "The Implementation of the Colored Abstract Simplicial Complex and Its Application to Mesh Generation". *ACM Trans. Math. Softw.* 45.3 (Aug. 8, 2019), pp. 1–20. DOI: 10.1145/3321515. Preprints: arXiv: 1807.01417 [cs.MS], PMC: 6716611.
- [19] B. C. Taylor, **C. T. Lee**, and R. E. Amaro[#]. "Structural Basis for Ligand Modulation of the CCR2 Conformational Landscape". *Proc. Natl. Acad. Sci.* 116.17 (Apr. 23, 2019), pp. 8131–8136. DOI: 10.1073/pnas.1814131116. Preprints: BioRxiv , PMC: 6486717.
- B. R. Jagger, C. T. Lee, and R. E. Amaro[#]. "Quantitative Ranking of ?]-cyclodextrin Ligand Binding Kinetics With SEEKR, a Hybrid MD/BD/Milestoning Approach". *J. Phys. Chem. Lett.* 9.17 (Sept. 6, 2018), pp. 4941–4948. DOI: 10.1021/acs.jpclett.8b02047. (Featured on Journal Cover). Preprints: ChemRxiv ; PMC: 6443090.
- [21] C. T. Lee and R. E. Amaro[#]. "Exascale Computing: A New Dawn for Computational Biology". *Comput. Sci. Eng.* 20 (Aug. 30, 2018), pp. 18–25. DOI: 10.1109/MCSE.2018.05329812. (Special issue on the National Strategic Computing Initiative). Preprint: PMC: 6458592.
- [22] L. W. Votapka[†], **C. T. Lee**[†], and R. E. Amaro[#]. "Two Relations to Estimate Membrane Permeability Using Milestoning". *J. Phys. Chem. B* 120.33 (Aug. 25, 2016), pp. 8606–8616. DOI: 10.1021/acs.jpcb.6b02814. (Special issue J. Andrew McCammon Feschrift). Preprint: PMC: 5002937.
- [23] J. R. Wagner[†], C. T. Lee[†], J. D. Durrant, R. D. Malmstrom, V. A. Feher, and R. E. Amaro[#]. "Emerging Computational Methods for the Rational Discovery of Allosteric Drugs". *Chem. Rev.* 116.11 (June 8, 2016), pp. 6370–6390. DOI: 10.1021/acs.chemrev.5b00631. Preprint: PMC: 4901368.
- [24] **C. T. Lee**, J. Comer*, C. Herndon, N. Leung, A. Pavlova, R. V. Swift, C. Tung, C. N. Rowley, R. E. Amaro*, C. Chipot*, Y. Wang*, and J. C. Gumbart*. "Simulation-Based Approaches for Determining Membrane Permeability of Small Compounds". *J. Chem. Inf. Model.* 56.4 (Apr. 25, 2016), pp. 721–733. DOI: 10.1021/acs.jcim.6b00022. Preprint: PMC: 5280572.
- [25] C. Gray[†], C. W. Price[†], **C. T. Lee**, A. H. Dewald, M. A. Cline, C. E. McAnany, L. Columbus[#], and C. Mura[#]. "Known Structure, Unknown Function: An Inquiry-Based Undergraduate Biochemistry Laboratory Course". *Biochem. Mol. Biol. Educ.* 43.4 (July 8, 2015), pp. 245–262. DOI: 10.1002/bmb.20873. Preprint: PMC: 4758391.

[26] R. D. Malmstrom, **C. T. Lee**, A. T. Van Wart, and R. E. Amaro[#]. "Application of Molecular-Dynamics Based Markov State Models to Functional Proteins". *J. Chem. Theory Comput.* 10.7 (July 8, 2014), pp. 2648–2657. DOI: 10.1021/ct5002363. (Special issue on free energy). Preprint: PMC: 4248791.

≯Book Chapters

[27] C. T. Lee[#] and P. Rangamani[#]. "Modeling the Mechanochemical Feedback for Membrane-Protein Interactions Using a Continuum Mesh Model". *Biophysical Approaches for the Study of Membrane Structure—Part B: Theory and Simulations*. Ed. by M. Deserno and T. Baumgart. Vol. 701. Methods in Enzymology. Academic Press, July 16, 2024, pp. 387–424. DOI: 10.1016/bs.mie.2024.03.016.

GRANTS AND FUNDING _

>Completed Funding

Innovative Research Grant 🗹

Award Amount: \$50,000 (\$38,000 to CTL)

- co-PIs: Courtney Glavis-Bloom, Casey Vanderlip, John Reynolds, Sammy Weiser Novak, Uri Manor, Miriam K. Bell, Mayte Bonilla-Quintana, Padmini Rangamani
- Investigating the relationships between synaptic energy efficiency and age-related cognitive decline
- Hosted summer internships for 2 high school aged students

TruffleSnout

Award Amount: \$1000

- Team selected to participate in the UCSD NSF I-Corps Winter 2017 cohort
- Investigated the potential to commercialize microbiota to assist in growing difficult specialty crops such as truffles

PRESENTATIONS _

>Invited

- [1] Telluride Workshop Complexity in the Chemistry and Physics of Lipid Membranes. Telluride, CO, June 2025.
- [2] Dept. of Molecular Biophysics. La Jolla, CA, Apr. 2024.
- [3] Telluride Workshop Complexity in the Chemistry and Physics of Lipid Membranes. Telluride, CO, June 2023.
- [4] International Meshing Roundtable. Amsterdam, Netherlands, Mar. 2023.
- [5] Simula. La Jolla, CA, Aug. 2021.
- [6] Society for Brain Mapping and Therapeutics. Los Angeles, CA, Mar. 2021.
- [7] UCSD CSE Pixel Cafe. La Jolla, CA, Nov. 2020.
- [8] Center for Computational Mathematics. La Jolla, CA, May 2019.
- [9] University of Virginia. Charlottesville, VA, Apr. 2011.

>Contributed Talks

- [10] UCSD MBTG Annual Retreat. La Jolla, CA, Apr. 2019.
- [11] UCSD Industry Interaction Day. La Jolla, CA, May 2017.
- [12] UCSD MBTG Annual Retreat. La Jolla, CA, May 2017.
- [13] UC-wide Symposium for Chemical Sciences. Lake Arrowhead, CA, Mar. 2016.
- [14] UCSD MBTG Seminar. La Jolla, CA, Jan. 2016.
- [15] UCSD MBTG Seminar. La Jolla, CA, Mar. 2015.

>Conference Abstracts (Poster)

- [16] Biophysical Society National Meeting. Philadelphia, PA, Feb. 2024.
- [17] Biophysical Society National Meeting. San Diego, CA, Feb. 2023.
- [18] Biophysical Society National Meeting. San Francisco, CA, Apr. 2022.
- [19] Biophysical Society National Meeting. San Diego CA, Feb. 2020.
- [20] BASF CARA Spring Review. La Jolla, CA, Mar. 2019.
- [21] Biophysical Society National Meeting. Baltimore MD, Mar. 2019.
- [22] Biological Diffusion and Brownian Dynamics Brainstorm 4. Heidelberg, Germany, Apr. 2018.

- [23] Biophysical Society National Meeting. San Francisco, CA, Feb. 2018.
- [24] American Chemical Society National Meeting. San Francisco, CA, Apr. 2017. (Selected for ACS CINF Scholarship for Scientific Excellence).
- [25] Biophysical Society National Meeting. New Orleans, LA, Feb. 2017. (Travel Award).
- [26] UCSD MBTG Annual Retreat. La Jolla, CA, Jan. 2015. (Best Poster).
- [27] National Biomedical Computation Resource, Summer Institute. La Jolla, CA, Aug. 2011.
- [28] ACS Virginia Section. Charlottesville, VA, Apr. 2011.

PROFESSIONAL SERVICE _

>Peer Review:

- AFOSR LRIR Review
- Chemistry and Physics of Lipids
- Journal of Chemical Information and Modeling
- Journal of Physical Chemistry
- Physical Review Journals
- Nature Communications Biology
- Soft Matter

>Community Outreach:

ENLACE Mentor

University of California San Diego

- Supervised summer research for two undergraduate level students from Mexico
- The students constructed geometric mesh models of neuronal mitochondria from electron tomograms

PNAS Journal Club Panelist [3]

fontmatter.pnas.org

2018-19

· Worked with PNAS Front Matter group to select exciting and recent articles for their science writers to highlight

BioChemCoRe ☐: Program Director

University of California San Diego

₩ Summer 2018

- Organized and ran the annual Amaro Lab outreach program
- Developed a 7 week curriculum to teach computational drug discovery and soft skills (teach science as we do science)
- The students worked to predict the IC50s of a set of Hsp90 inhibitors based upon a provided training set
- Tutorials and course material can be found online at: https://ctlee.github.io/BioChemCoRe-2018/

Student Invited Speaker Committee [2]

University of California San Diego

2017

- Inaugural member of the Chem. & Biochem. student invited speaker committee
- Selected and hosted various speakers on behalf of the students
- Lobbied to add the seminar series into the responsibilities of the Chemistry Graduate Student Council to ensure future oversight, funding, and support

PRIME Mentor

University of California San Diego

2015 - 17

- Mentor "Promoting Retention Innovation and Mentorship Enrichment" for incoming graduate students
- Program designed to improve graduate student success, completion efforts, develop a culture of effective mentorship, and to further promote a positive environment of inclusivity and diversity

BioChemCoRe ☐: Research Mentor

University of California San Diego

Summers 2014 - 17

- 8 week annual summer outreach program seeking to increase retention of under-privileged and diverse students in science
- Organized and presented teaching materials on computational chemistry methods
- Sponsored and advised student research projects

Graduate Recruitment Committee

University of California San Diego

March 2014-16

- Represented the Theoretical and Computational Chemistry Track at incoming graduate recruitment events
- Answered questions from interested students

BioLED: Biochemistry Lab Education Resource

University of Virginia

2011

- Developed inquiry based modules to teach computational bioinformatics
- Contributed to curriculum where students investigate a protein that has a determined structure, but the function has not been experimentally investigated

TEACHING AND MENTORING ___

>Teaching Activities:

NBCR Data to Structural Models (UCSD)	Summer 2016-18
BioChemCoRe (UCSD)	Summer 2014-18
TA, CHEM 167: Medicinal Chemistry (UCSD)	Spring 2014
TA, CHEM 6bh: General Chemistry II Honors (UCSD)	Winter 2014
TA, CHEM 6a: General Chemistry I (UCSD)	Fall 2013
TA, CHEM 4421: Biological Chemistry Lab II (UVA)	Spring 2012
TA, CHEM 4411: Biological Chemistry Lab I (UVA)	Fall 2011

>Mentorship:

Graduate Research:

Xiaoyi Wu (Physics, UCSD)	2023 - Present
Natalia Reis (Chemistry and Biochemistry, UCSD)	2023
Cuncheng Zhu (Mechanical Engineering, UCSD)	2019 - 2022
Justin Laughlin (Mechanical Engineering, UCSD)	2019 - 2022
Miriam Bell (Mechanical Engineering, UCSD)	2019 - 2022
- NDSEG Fellow	

• Andrew Nguyen (Mechanical Engineering, UCSD) 2020 - 2022

- Honorable Mention-2020 NSF GRFP

Undergraduate Research:

Andrew Nguyen (Bioengineering, UCSD)	2019 - 2020
Justin Oshiro (Mechanical Engineering, UCSD)	2019 - 2020
Meagan P. Rowan (Bioengineering, UCSD)	2019 - 2020
Andrea S. Jacinto (Chemistry, UNAM)	ENLACE, Summer 2019
Aranza S. M. Lopez (Nanoengineering, UPSIN)	ENLACE, Summer 2019
Nils Angliviel de La Beaumelle (Environmental Engineering, UCSD)	2018 - 2019
Chirag Krishna (Bioinformatics, UCSD)	2014 - 15

- Amgen Scholar

• Shelby Friends (Undeclared, Palomar College)

NSF REU, Summer 2015

High School Research:

Rishabh Bhutani (Rocklin High School)	2024 - Present
Nandana Madhukara (Canyon Crest Academy)	2022 - Present
- 1st Place Computational Systems (Medical)-2023 California Sci. & Eng. Fair ♂	

- 2nd Place-2023 UCLA Brain Research Award 🗹

- Invited to International Sci. & Eng. Fair

Aditi Telang (Olympian High School)	2021 - 2022
Kavya Gupta (Westview High School)	2020 - 2023

- Invited to American Junior Academy of Science Conference

Eleanor Jung (Mt. Carmel High School)

- 4th Place-2021 Intermountain JSHS

- Grand Award Runner-Up-2021 Greater San Diego Sci. & Eng. Fair

- 4th Place Comp. Bio. and Bioinform.-2021 International Sci. & Eng. Fair (ISEF)♂

Maven Holst (Canyon Crest Academy)

- 1st Place-2019 Greater San Diego Sci. & Eng. Fair

- 2nd Place-2019 California Sci. & Eng. Fair

- Invited to International Sci. & Eng. Fair

• Jessie Gan (San Diego Jewish Academy) 2018 – 2021

- Finalist (Top 40)-2021 Regeneron Science Talent Search Finalist 🖸

- 2020 Davidson Fellow 🗗

- Awards from Sigma Xi and Broadcom MASTERS, California Sci. & Eng. Fair, Greater San Diego Sci. & Eng. Fair

Dhruv Kumar (Rancho Bernardo High School)
 2018 – 2021

6of 7

2020 - 2023

2018 - 2021

• Gray Thoron (San Diego Metropolitan Regional and Technical)

2018

BioChemCoRe (Summers of years 2014 - 2018, UG and HS):

Hillary Pratt, Aditya Ravipathi, Kevin Cheng, Cynthia Chen, Jessie Gan, Michael Murphy, Divya Ghoshal, Gaurie Gunasekaran, Tyler Kraft, Dhruv Kumar, Emmanuel Ledesma, Kien Malarney, Neel Mittal, Michael Tu

PROFESSIONAL MEMBERSHIPS

2006 - 2008 AAAS

2016 - 2018 American Chemical Society

2016 - Biophysical Society

2024 - ASCB

REFERENCES_

Available upon request