

JOSHUA YOUNG YANG

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EDUCATION

Stanford University Graduate School of Business Stanford, CA Master of Business Administration, M.B.A. Certificate in Public Management and Social Innovation Henry Ford II Scholar (Valedictorian), Arjay Miller Scholar (Top 10%), Siebel Scholar	09/2019 – 06/2021
Johns Hopkins University School of Medicine Baltimore, MD Doctor of Medicine, M.D. candidate Doctor of Philosophy in Bioengineering, Ph.D. candidate, Sigma Xi <i>Attended fully funded with stipend on the Medical Scientist Training Program Grant</i>	08/2016 – On LOA
University of California, San Francisco San Francisco, CA University of California, Berkeley Berkeley, CA Master of Engineering in Translational Medicine, M.Eng.	08/2015 – 06/2016
University of California, San Diego La Jolla, CA Bioengineering: Biotechnology, B.S. and General Biology, B.S. Valedictorian in Bioengineering, Summa Cum Laude, Phi Beta Kappa, Tau Beta Pi <i>Attended fully funded with stipend on the Jacobs School and Regents Scholarship</i>	09/2011 – 06/2015

ENTREPRENEURIAL EXPERIENCE

Glyphic Biotechnologies www.glyphic.bio <i>Seed-stage biotechnology startup commercializing a next-generation protein sequencing platform.</i> Role: Co-Founder and CEO <ul style="list-style-type: none">Directed all operations, hiring, fundraising, partnerships, and external stakeholder relations.Fundraised from VC investors leading to an oversubscribed Seed round of \$6.025 million.	09/2020 – Present
Nephrosant www.nephrosant.com <i>Series A biotechnology startup commercializing noninvasive diagnostics for kidney injury.</i> Role: Co-Founder <ul style="list-style-type: none">Invented noninvasive technologies to determine risk of kidney injury more sensitively than existing clinical solutions, for which multiple intellectual property filings have been and are being pursued.Managed collaborative partnerships with industry partners for product development, leading to successful prototype completion within established budget.Directed operations of research associates, interns, and students in the clinical development of our flagship product, the QSant Assay and Score.Fundraised from VC investors leading to Series A and prior investments totaling \$22 million.	12/2015 – Present
Helispot Role: Co-Founder <ul style="list-style-type: none">Developed an isothermal assay for the detection of nucleic acids based on bioengineered helicase technology.Consulted industry experts in life sciences and diagnostics fields and analyzed market trends in DNA amplification field to pivot company's direction.Oversaw five MD and PhD students in development of marketing and commercialization strategy.Wrote a proposal and received an industry grant from Integrated DNA Technologies for further development of the assay technology.	06/2017 – 12/2018

VENTURE CAPITAL / PRIVATE EQUITY EXPERIENCE

SeaX Ventures Venture capital firm investing globally in deep-tech companies	08/2020 – 10/2020
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Role: Venture Fellow

- Sourced and conducted due diligence on venture capital investment opportunities for investment opportunities relevant to RISE's investment thesis leading to a biotech investment.
- Developed a business expansion strategy and action plan for RISE's expansion into Indonesia, which was presented to the RISE CEO and leadership team.
- Mentored by [Kid Parchariyanon](#), Managing Partner of SeaX Ventures.

InSITE Fellows

12/2019 – 09/2020

Role: InSITE Fellow

- Developed a microbiome investment thesis based on industry research via interviews with startup companies, pharmaceutical companies, CROs, investors, governmental/regulatory agencies, academic thought leaders, and analytical service providers.
- Completed practical training on venture capital term sheets taught by WSGR attorneys.

Pear Ventures

11/2019 – 09/2020

Role: Pear Fellow

- Sourced leading startups and entrepreneurial founders, conducted due diligence, and supported portfolio companies focused on life sciences and healthcare.
- Mentored by [Pejman Nozad](#) and [Mar Hershenson](#), Founding Managing Partners of Pear Ventures.

UCSF Clinical & Translational Science Institute (CTSI) Catalyst Program

03/2016 – 06/2016

Translational accelerator providing over \$22 million in seed funds for biotechnology startups

Role: Catalyst Program Intern

- Created a market report detailing changing trends and opportunities in the mechanical ventilation field for the Esophageal Manometry for Airway Protection (EMAP) team, contributing to successful funding by the CTSI Catalyst program in Spring 2016.
- Reviewed proposals for medical devices track submissions, evaluating commercialization potential and development feasibility.

PATENTS / INTELLECTUAL PROPERTY

1. **US10982272B2** - [Immunoprobe-based method to assess organ injury status through a biofluid-based cell-free DNA \(cfDNA\) assay](#)
 - Sarwal MM, Sigdel TK, Yang JY.
2. **US10995368B2** - [Immunoprobe-based method to assess organ injury status through a biofluid-based cell-free DNA \(CFDNA\) assay](#)
 - Sarwal MM, Sigdel TK, Yang JY.
3. **US20190211385A1 16/325,385** - [Novel immunoprobe-based method to assess organ injury status through a biofluid-based cell-free dna \(cfdna\) assay](#)
 - Sarwal MM, Sigdel TK, Yang JY.
4. **WO2020150609A1 62/793,870** - [Urine metabolomics based method of detecting renal allograft injury](#)
 - Sarwal MM, Yang JY.
3. **USPTO Provisional App. No. 62/896,296** - A novel noninvasive method to quantify kidney function and functional decline through urinary biomarker quantitation
 - Sarwal MM, Yang JY.
4. **USPTO Provisional App. No. 63/046,539** - Markers for Monitoring Organ Transplant Rejection
 - Colucci M, Yang JY
5. **USPTO Provisional App. No. 63/127,122** – Kits for Stabilization of Urine Samples
 - Zawada R, Yang JY.
6. A novel noninvasive method to quantify kidney stone burden and recurrence risk through urinary biomarker quantitation
 - Sarwal MM, **Yang JY**, Chi T, Stoller M. UCSF Invention Disclosure No. SF2020-033
7. Urinary biomarkers for IgA nephropathy detection and progression risk
 - Sarwal MM, **Yang JY**. UCSF Invention Disclosure No. SF2020-040

8. Isothermal Superhelicase-dependent Amplification of Nucleic Acids
 - Ha T, Momcilo G, **Yang J.** Johns Hopkins University Invention Disclosure No. C14980

GRANTS

1. [Integrated DNA Technologies \(IDT\) Synthetic Biology Grant Program](#) 01/2018
 - Role: Principal Investigator @ Helispot, Inc.
 - Project: Development of enhanced superhelicases through synthetic biology approaches
2. [Atomwise Artificial Intelligence Molecular Screen \(AIMS\) Award](#) 02/2019
 - Role: Co-Principal Investigator @ UCSF
 - Project: Development of small molecular inhibitors of IgE-FcεRI receptor interactions
3. [FDA Grant P50FD006424, Subaward 11351sc \(UCSF-Stanford Pediatric Device Accelerator\)](#) 09/01/2018 – 08/31/2019
 - Role: Principal Investigator @ Nephrosant, Inc.
 - Project: Development of a noninvasive urinary dipstick for pediatric kidney transplant rejection
4. [Rheumatology Research Foundation \(RRF\)](#) 05/2019
 - Role: Recipient, Researcher @ UCSD
 - Project: NSAID-Induced Nephropathy in Patients with Rheumatic Diseases and Potential Interventions
5. [uBiome Microbiome Grant Initiative](#) 05/2019
 - Role: Principal Investigator @ UCSF
 - Project: Urinary microbiome changes in kidney transplant rejection and immunosuppression
6. [The Roddenbury Foundation Catalyst Fund Grant](#) 11/2020
 - Role: Principal Investigator @ Cerviscope
 - Project: Cerviscope: A point-of-care screening tool for cervical cancer

LEADERSHIP TRAINING

Stanford Graduate School of Business GSBelonging Inclusion Ambassador 09/2020 - Present

Role: Inclusion Ambassador

- Trained on diversity, equity, and inclusion principles related to developing facilitation skills and building inclusive environments during mentorship.
- Led small group discussions on DE&I through creation of a space where people can have genuine conversations about who we are and how our backgrounds shape our experiences at the GSB and beyond.

Robertson Center for Intercultural Leadership 01/2016 – 05/2016

Role: Intern

- Developed advanced intercultural competencies through planning and hosting events at the International House of UC Berkeley.
- Led and hosted the first-ever LGBTQ Pride event at the International House, which was attended by a record number of residents. Co-led a PechaKucha event, where I shared my story about defining and finding community in an LGBTQ community in Spain.

Global Leadership Course (formerly Intercultural Leadership Initiative) 09/2015 – 12/2015

Role: Certificate Participant

- Underwent 50+ hours of training to develop competencies in intercultural and global leadership skills and mindsets with a capstone project of producing a video detailing the harm of stereotypes and microaggressions.
- Canvassed in underserved minority neighborhoods within specific districts in the Bay Area, such as Fruitvale, a Hispanic community in Oakland, CA and the Tenderloin, San Francisco's original LGBT community.
- Developed and gave a seminar on LGBTQ history and healthcare disparities, especially as it related to trans communities in the context of the Tenderloin district.

Daniels Interprofessional Education Scholars Program 12/2016 – 06/2017

Role: Daniels Scholar

- Underwent 50+ hours of training spread over 16 seminars focused on interprofessional education competencies through student-facilitated learning teams, communication activities, and other interactive learning modalities.

- Conducted home visits with an interdisciplinary team from nursing, medicine, and pharmacy to collaboratively provide safe, high-quality patient care.

ComSciCon 2019 National Workshop

07/2019

Role: Participant

- Selected as 1 of 50 out of 700 applicants to participate in a workshop focused on developing leadership and communication skills to convey scientific concepts and discoveries to their peers, experts in other fields, and the general public.
- Produced an original piece of science writing and received feedback from expert science communicators, the product of which was subsequently published in a medical journalistic outlet.

HONORS, AWARDS, & SCHOLARSHIPS

2021

- Awardee: [Founder to Watch](#) at Pillar VC and Petri's Founder-Led Bio Week 2021
- Winner: [Biocom California Catalyst Award 2021](#)
- Recipient: [Henry Ford II Scholar](#) (Valedictorian, Stanford GSB MBA)
- Recipient: [Arjay Miller Scholar](#) (Top 10%, Stanford GSB MBA)
- Semi-Finalist: [Point Foundation Scholarship 2021](#)

2020

- Recipient: [Forbes 30 Under 30 Healthcare 2021](#)
- Recipient: [The Roddenberry Foundation Catalyst Fund Grant](#)
- Recipient: [Siebel Scholar](#), Class of 2021
- 1st Place: [Merck Innovation Cup 2020](#)
- Finalist: [Bisciotti Student Entrepreneurship Award 2020](#)
- 2nd Place: [Johns Hopkins Healthcare Design Competition 2020, Global Health Track](#)
- Winner: [American Transplant Congress \(ATC\) Young Investigator Award 2020](#)
- 1st Place: [5th Annual Yale Healthcare Case Competition 2020](#)
- Semi-Finalist: [Point Foundation Scholarship 2020](#)

2019

- Recipient: Robert E. and Dorothy M. Morris Fellowship
- Recipient: Clarence J. Hicks Memorial Fellowship in Industrial Relations
- Finalist: [Reaching Out MBA \(ROMBA\) Start-Up Competition 2019](#)
- Runner-Up: [The Advanced Lateral Flow Course \(ALFC\) Rapid Testing Innovation Award 2019](#)
- Winner: [Asian Business Association Foundation Scholarship 2019](#)
- Recipient: [Baxter Young Investigator Award 2019](#)
- Winner: [American Society of Nephrology \(ASN\) Kidney STARS Award 2019](#)
- Recipient: 11th Symposium on Circulating Nucleic Acids in Plasma and Serum Travel Award (*Awarded but declined*)
- Winner: 4th International Meeting on Cell-Free DNA 2019 Best Poster Award
- Winner: [Sallie Mae Bridging the Dream Scholarship for Graduate School 2019](#)
- Winner: [JHU BME EDGE Business Card Design Competition 2019](#)
- Winner: [American Transplant Congress \(ATC\) Young Investigator Award 2019](#)
- 1st Place: [4th Annual Yale Healthcare Case Competition 2019](#)
- Silver Award: [UCSF-Stanford Pediatric Device Accelerator 2019](#)
- Winner: [4th International Meeting on Cell-Free DNA 2019 Travel Grant](#)
- Semi-Finalist: [Point Foundation Scholarship 2019](#)

2018

- 1st Place: [Johns Hopkins Graduate Consulting Club \(JHGCC\) Fall Case Competition 2018](#)
- Winner: [American Society of Nephrology \(ASN\) Kidney STARS Award 2018](#)
- Finalist: [Sobran BioScience Innovation for Impact Prize 2018](#)

- Winner: Amgen Scholars Alumni Travel Grant Spring 2018
- Winner: Mission Bay Hospital Auxiliary Scholarship 2018
- Recipient: [Johns Hopkins University School of Medicine 125th Anniversary Hopkins Hero](#)
- 2nd Place: [ACP Maryland Chapter Steps to Success Research Poster Competition](#)
- Winner: [MLH 2018 Stanford University TreeHacks Hackathon](#) (Illumina Prize for Best Genomics Hack)
- Semi-Finalist: [Point Foundation Scholarship 2018](#)
- Election: [Sigma Xi Research Honor Society](#)
- Finalist: [American College of Physicians \(ACP\) Young Achiever / National Abstract Competition 2018](#)
- Finalist: [Lemelson-MIT Student Prize "Cure it!" 2018](#)

2017

- Recipient: [Forbes Under 30 Scholar 2017](#)
- Winner: [Thermo Fisher Scientific Antibody Scholarship 2017](#)
- Semi-Finalist: [Tylenol Future Care Scholarship 2017](#)
- Winner: [American Transplant Congress \(ATC\) 2017 – Best in Congress Poster](#)
- Recipient: [American Society of Nephrology \(ASN\) TREKS Kidney Scholar](#)

2016

- 1st Place: [MLH 2017 JHU MedHacks 2.0 Hackathon](#) (Best Use of Data for Medicine / Wolfram's Best Tech Award)
- Recipient: [Johns Hopkins University Daniels Scholar](#)
- Recipient: [American Society of Nephrology \(ASN\) Kidney STARS 2016 Award](#)
- 1st Place: [ASAIO 5th Annual Medical Device Entrepreneur's Forum](#)
- 1st Place: [17th Annual UC/BIC Systemwide Bioengineering Symposium Mentored Showcase / Shark Tank](#)
- Recipient: [American Transplant Congress \(ATC\) 2016 Resident/Student Award](#)
- Recipient: [Master of Translational Medicine Student Travel Award](#)
- Top 20 Innovation: [Bay Area Global Health Innovation Challenge 2016](#)
- Semi-Finalist: [UC Berkeley Grad Slam 2016](#)
- Recipient: [Clinton Global Initiative University \(CGI U\) 2016 Attendee](#)

2015

- Semi-Finalist: [OneStart Americas 2016 Startup Accelerator](#)
- Winner: [Berkeley-Haas Healthcare Conference Innovation in Diabetes Design Challenge](#)
- Finalist: [Berkeley-Haas Hack2Health](#)
- Student Speaker: [UCSD Bioengineering Senior Graduation](#)
- Student Speaker: [UCSD Jacobs School of Engineering Ring Ceremony](#)
- Recipient: [UCSD Bioengineering Department Outstanding Academic Achievement Award \(Valedictorian, UCSD Bioengineering\)](#)
- Recipient: [Phi Beta Kappa UCSD Scholarship](#)
- Finalist: [Engineering World Health HealthHack Hackathon](#)
- Recipient: [UCB/UCSF MTM Translational Medicine Scholarship](#)
- Recipient: [International House of Berkeley C.H. Ramsden Scholarship](#)
- Finalist: [UCSD Bioengineering Quiz Bowl](#)

2014

- Election: [Tau Beta Pi Engineering Honor Society](#)
- Election: [Phi Beta Kappa Honor Society](#)
- Recipient: [Spanish National Cancer Research Centre Summer Training Fellowship](#)
- Winner: [Barry M. Goldwater Scholarship](#)
- Recipient: [Asian Business Association of San Diego College Scholarship](#)
- Recipient: [Cenzone Tech Inc. Scholarship](#)

2013

- Recipient: [Amgen Scholars Program Scholar](#)

- Recipient: Asian Pacific Islander American Public Affairs Association Scholarship

2012

- Recipient: Qualcomm Institute (Calit2) Summer Scholar

2011

- Recipient: Jacobs School Scholar
- Recipient: Regents Scholar
- Recipient: Provost Honors
- Recipient: Atsuhiko Tateuchi Memorial Scholarship
- Recipient: Point Loma Credit Union Scholarship
- Finalist: Elk's Lodge Most Valuable Student Association
- Recipient: Cox Cares Scholars
- Recipient: AXA Achievement Community Scholarship
- Recipient: Discus Award Winner
- Recipient: California Scholarship Federation Seymour Award
- Recipient: Chinese Women's Association Scholarship
- Recipient: Taiwanese American Foundation of San Diego Scholarship
- Recipient: Samsung Scholarship
- Recipient: Captain Godfrey Memorial Scholarship
- Recipient: Asian Pacific Islanders for Professional and Community Development AT&T Scholarship
- Recipient: Asian Business Association of San Diego Scholarship
- Finalist: National Chemistry Olympiad
- Recipient: Health Care Communicators of San Diego / AMN Healthcare Scholarship
- Recipient: Dr. Glen A. Livesay Science Scholarship
- Semi-Finalist: Kyoto Scholarship

PEER-REVIEWED ORIGINAL ARTICLES

1. [Continuous Wave Ultrasonic Doppler Tonometry](#)
 - Akinin A, **Yang J**, Williams A, Lee A, Pourhoseini P, Fronck A. IEEE Biomedical Circuits and Systems Conference (BioCAS). Lausanne: IEEE; 2014. p. 328–31.
2. [Alternative activation mechanisms of Protein Kinase B trigger distinct downstream signaling responses](#)
 - Balzano D, Fawal M-A, Velazquez JV., Santiveri CM, **Yang J**, Pastor J, Campos-Olivas R, Djouder N, Lietha D. J Biol Chem 2015;(4):jbc.M115.651570.
3. [Self-antigens and Rejection: A Proteomic Analysis](#)
 - **Yang JYC**, Sigdel TK, Sarwal MM. Curr Opin Organ Transplant 2016;21(4):362–7.
4. [Transplant Genetics and Genomics](#)
 - **Yang JYC**, Sarwal MM. **Nature Reviews Genetics** 2017;18(5):309-26
5. [Retrospective Evaluation of the Efficacy and Safety of Belatacept with Thymoglobulin Induction and Maintenance Everolimus: A Single Center Clinical Experience](#)
 - Wojciechowski D, Chandran S, **Yang JYC**, Sarwal MM, Vincenti F. Clin Transplant. 2017;31:e13042.
6. [Polyclonal Regulatory T cell Therapy for Control of Inflammation in Kidney Transplants](#)
 - Chandran S, Tang Q, Sarwal M, Laszik ZG, Putnam AL, Leung J, Nguyen V, Lee K, Sigdel T, Tavares EC, **Yang JYC**, Hellerstein M, Fitch M, Bluestone JA, Vincenti F. Am J Transplant; 2017; 17: 2945–2954
7. [The common rejection module in chronic rejection post lung transplantation](#)
 - Sacreas A, **Yang JYC**, Vanaudenaerde BM, Sigdel TK, Liberto JM, Damm I, Verleden GM, Vos R, Verleden E, Sarwal MM. PLOS ONE 2018; 13(10): e0205107.
8. [Cell-Free DNA and CXCL10 Derived from Bronchoalveolar Lavage Predict Lung Transplant Survival](#)
 - **Yang JYC**, Verleden S, Zarinsefat A, Vanaudenaerde BM, Vos R, Verleden GM, Sarwal RD, Sigdel TK, Liberto JM, Damm I, Watson D, Sarwal MM. J. Clin. Med. 2019, 8, 9.
9. [Cyclical Fevers in a 4-year-old Boy with IgA Deficiency](#)

- **Yang JYC**. Reports. 2019, 2, 1–5.
10. [A Novel Multi-Biomarker Assay for Non-Invasive Quantitative Monitoring of Kidney Injury](#)
 - Watson D, **Yang JYC**, Sarwal RD, Sigdel TK, Liberto J, Damm I, Louie V, Sigdel S, Livingstone D, Soh K, Chakraborty A, Liang M, Lin P-C, Sarwal MM. J Clin Med (2019) 8:1–17.
 11. [A Urinary Common Rejection Module \(uCRM\) Score for Non-Invasive Kidney Transplant Monitoring](#)
 - Sigdel TK*, **Yang JYC***, Bestard O, Schroeder A, Hsieh S-C, Liberto JM, Damm I, Geraedts ACM, Sarwal MM. PLoS One 2019, 7, 1–15. **Authors contributed equally.*
 12. [Noninvasive Urinary Monitoring of Progression in IgA Nephropathy](#)
 - **Yang JYC**, Sarwal RD, Fervenza FC, Sarwal MM, Lafayette RA. Int J Mol. 2019;20:1–10.
 13. [Non-Radiologic Assessment of Kidney Stones by KIT, a Spot Urine Assay](#)
 - **Yang JYC**, Sarwal RD, Ky K, Dong V, Stoller M, Watson D, Sarwal MM, Chi T. Br J Urol Int. 2019.
 14. [A urine score for noninvasive accurate diagnosis and prediction of kidney transplant rejection](#)
 - **Yang JYC**, Sarwal RD, Sigdel TK, Damm I, Rosenbaum B, Liberto JM, Chan-On C, Arreola-Guerra JM, Alberu J, Vincenti F, Sarwal MM. **Science Translational Medicine**. 12, eaba2501, 2020.
 15. [Clinical and Analytical Validation of a Novel Urine-based Test for the Detection of Allograft Rejection in Renal Transplant Patients](#)
 - Nolan N, Valdivieso K, Mani R, **Yang JYC**, Sarwal RD, Katzenbach P, Chalasani K, Hongo D, Lugtu G, Mark C, Chen E, Nijor R, Savoca D, Wexler DS, Whitson T, Huang S-J, Lu LH, Zawada RJX, Hytopoulos E, Sarwal MM. J. Clin. Med. 2020.
 16. [Targeted Urine Metabolomics for Monitoring Renal Allograft Injury and Immunosuppression in Pediatric Patients](#)
 - Sigdel TK, Schroeder AW*, **Yang JYC***, Sarwal RD, Liberto JM, Sarwal MM. J. Clin. Med. 2020. **Authors contributed equally.*
 17. [Analytical Performance Validation of a Multi-Biomarker Test for Assessment of Allograft Rejection in Renal Transplant Recipients](#)
 - Zawada RJX, Valdivieso K, Katzenbach P, Chalasani K, Mark C, Hongo D, Lugtu G, Chen E, Huang SJ, Wexler DS, **Yang JYC**, Sarwal R, Sarwal MM, Nolan N. J Med Diagn Meth 2020, 9, 301.
 18. Rapid isothermal amplification of several kilo base pair linear DNA
 - Gavrilov M, **Yang JYC**, Lee C-Y, Mohapatra S, Liao T-W, Myong S, Ha T. PNAS. 2021. *Under Review.*

PEER-REVIEWED ABSTRACTS

1. [Treatment of Innate Immune Arthritis With a Toll-Like Receptor 7 Agonist Requires Type I Interferon](#)
 - Hayashi T, Crain B, Yao MS, Cottam HB, **Yang J**, Carson DA, Corr M. Arthritis Rheum 2013;65:733.
2. [A Non-invasive Urinary Common Rejection Module \(uCRM\) Gene Expression Score Quantifies and Differentiates Kidney Transplant Injury](#)
 - Sigdel TK, **Yang JY**, Bestard O, Hsieh S-C, Roedder S, Damm I, Liberto J, Nandoe S, Sarwal MM. Am J Transplant. 2017;17 (suppl 3).
3. [A Novel Belatacept Regimen to Optimize Efficacy and Safety](#)
 - Wojciechowski D, Chandran S, Sarwal M, **Yang J**, Vincenti F. Am J Transplant. 2017;17 (suppl 3).
4. [Novel biomarkers for segregating lung transplant rejection phenotypes](#)
 - **Yang JY**, Vanaudenaerde B, Sigdel TK, Liberto J, Verleden S, Sarwal MM. Am J Transplant. 2017;17 (suppl 3).
5. [Gene expression markers to segregate lung transplant rejection phenotypes](#)
 - Verleden S, **Yang JY**, Sigdel TK, Liberto J, Verleden G, Vos R, Sigdel TK, Vanaudenaerde B, Sarwal MM. Eur. Respir. J. 2017;50 (suppl 61).
6. [A novel urinary Kidney Injury Test differentiates nephrolithiasis from immune-mediated renal diseases](#)
 - Chi T, Sigdel T, **Yang JY**, Watson D, Tzou D, Reliford-Titus S, Sarwal MM. J Urol. 2018.
7. ["Multi-Omic" Analysis of Proteome and Metabolome for Acute Rejection and PVAN in Kidney Transplantation](#)
 - Sigdel TK, **Yang J**, Sarwal MM. Am J Transplant. 2018;17 (suppl 3).
8. [Predicting Transplant Rejection by a Composite Urinary Injury Score](#)
 - **Yang JY**, Sarwal R, Sigdel TK, Sarwal MM. Am J Transplant. 2019;19 (suppl 3).

9. [Bronchoalveolar Lavage Biomarkers Predict Lung Transplant Survival](#)
 - Zarinsefat A, **Yang JY**, Sarwal R, Liberto JM, Watson D, Verleden SE, Sarwal MM. Am J Transplant. 2019;19 (suppl 3).
10. [Increased Total Urinary Cell-Free DNA Predicts Renal Transplant Rejection](#)
 - **Yang J**, Sarwal R, Sigdel T, Sarwal M. Transplant International. 2019;32 (suppl 2).
11. [Analytical Stability and Performance of QiSant, a Novel Urine Assay for Early Detection of Kidney Transplant Rejection](#)
 - Nolan N, Hongo D, Valdivieso K, Katzenbach P, **Yang J**, Whitson T, Lu L, Mani R, Sarwal R, Sarwal M. CEOT 2020.
12. [Targeted Urine Metabolomics For Monitoring Renal Allograft Injury And Immunosuppression](#)
 - Sigdel TK, Schroeder A, **Yang JY**, Sarwal R, Liberto J, Sarwal M. Am J Transplant. 2020;19 (suppl 3).
13. [The Urine Qisant Score: Non-Invasive, Accurate, Diagnosis and Prediction of Kidney Transplant Rejection](#)
 - **Yang JYC**, Sarwal RD, Sigdel TK, Damm I, Rosenbaum B, Liberto JM, Chan-On C, Alberu J, Vincenti F, Sarwal MM. Am J Transplant. 2020;19 (suppl 3).

RESEARCH PRESENTATIONS

Bronchoalveolar Lavage Biomarkers Predict Lung Transplant Survival

- American Transplant Congress 2019 (06/01/2019 Oral session)

Predicting Transplant Rejection by a Composite Urinary Injury Score

- American Society of Nephrology Annual Meeting 2019 (11/08/2019 Poster)
- American Transplant Congress 2019 (06/02/2019 Oral session)
- 4th International Meeting on Cell-Free DNA 2019 (05/24/2019 Oral session)

Superhelicase-Dependent Isothermal DNA Amplification

- JHU Medical Student Research Symposium 2018 (Poster)
- JHU Department of Medicine Research Retreat: Re-engineering Medical Discovery 2018 (Poster)
- American College of Physicians (ACP) Maryland Chapter Student Steps to Success Meeting 2018 (Poster)
- American College of Physicians (ACP) Internal Medicine Meeting 2018 (Poster)

Novel biomarkers for segregating lung transplant rejection phenotypes

- American Transplant Congress 2017 (Poster)

A non-invasive urinary Common Rejection Module (uCRM) gene expression score enables accurate discrimination of acute rejection in kidney transplant patients

- JHU Alumni Weekend Student Presentation 2017 (Poster)
- JHU Medical Student Research Symposium 2017 (Poster)
- JHU 12th Annual Bayview Research Symposium 2017 (Poster)

Kidney Injury Test – KIT Bio, Inc. / Nephrosant, Inc.

- 71st Annual AACC Annual Scientific Meeting & Clinical Lab Expo – AACC Innovation Zone CLN Presents Theater (Podium)
- 2nd Annual UCSF-Stanford Pediatric Device Consortium Pediatric Innovation Showcase 2019 (Podium)
- 3rd Annual Rosenman Institute Symposium 2016 (Podium)
- 62nd Annual ASAIO Conference's 5th Annual Medical Device Entrepreneur's Forum 2016 (Podium)
- 17th Annual UC/BIC Systemwide Bioengineering Symposium Mentored Showcase / Shark Tank 2016 (Podium)
- 7th Annual Caltech-UCSF Innovation Symposium 2016 (Podium)

Lung Mimetic-On-A-Chip Device for Gas Exchange

- 9th Annual UCSD Bioengineering Day 2015 (Poster)

Development of an Ultrasound Doppler Tonometer

- 8th Annual UCSD Bioengineering Day 2014 (Poster)

Cell-Free DNA is an Endogenous Mediator in Inflammatory Arthritis

- Qualcomm Institute Poster Session 2012 (Poster)
- 26th, 27th, 28th Annual UCSD Undergraduate Research Conference 2013/2014/2015 (Poster)
- UCSD Summer Undergraduate Research Conference 2013 (Poster)
- UCSD Biology Student Research Showcase 2013/2015 (Poster)

TEACHING EXPERIENCE

Course Assistant , Stanford Graduate School of Business	09/2020 – 11/2020
<ul style="list-style-type: none"> • FINANCE 205 – Accelerated Finance – Fall 2020 	
Teaching Assistant , Stanford Graduate School of Business	09/2020 – 11/2020

- FINANCE 201 (via Autumn Base Level Support) – Base Finance – Fall 2020
- Course Development Assistant**, Stanford Graduate School of Business 01/2021 – 04/2021
- FINANCE 207 - Corporations, Finance, and Governance in the Global Economy – Fall 2020
- Course Assistant**, Stanford Graduate School of Business 03/2021 – 06/2021
- OIT 262 – Base Operations – Spring 2021

INVITED SPEAKER

1. [Medical School Gap Year Panel](#)
 - Stanford Premedical Association (2020/05/27)
2. [A Conversation on Entrepreneurship in Biotech](#)
 - Amgen Foundation; Amgen Scholars Summer Science Series (2020/07/17)
3. The Intersection of Academia and Industry
 - Amgen Foundation; Amgen Scholars Summer Science Series (2020/07/30)
4. [Urine Luck: Non-invasive Assessment of Disease via Urine](#)
 - UCSF Innovators Forum (2020/12/22)
5. Uncommon Advice for Being an Uncommon Person
 - Bruin Medical Entrepreneur’s Speaker Series (2021/03/03)
6. Power of You
 - [Penn Bio Launch](#) (2021/03/18)

AUTHORED CONTENT

1. [Stitching Together a Medical Education](#)
 - Op-Med – Doximity. August 2019.
2. [Most of what you learned in medical school is wrong. And that’s OK.](#)
 - KevinMD. September 2019.
3. [Paying for Grad School: Scholarships, Fellowships, and the Financial Aid Office](#)
 - Within Reach – Sallie Mae. June 2020.
4. [A Pandemic of Loneliness](#)
 - Op-Med – Doximity. June 2020.
5. [LOWkeynotes: Give People — Including Yourself — A Break](#)
 - LOWkeynotes. April 2021.

PEER REVIEWER EXPERIENCE

Clinical Transplantation , Wiley Online Library	08/2018 - Present
Transplantation , Lippincott Williams & Wilkins	12/2018 - Present
Int J Transplant Res Med , ClinMed International Library	03/2019 - Present
Journal of Clinical Laboratory Analysis , Wiley Online Library	08/2019 - Present
Journal of Clinical Medicine , MDPI	06/2020 - Present
Diagnostics , MDPI	08/2020 - Present
STAR Protocols , Cell Press	12/2020 - Present
Frontiers in Immunology , Frontiers	01/2021 - Present
Clinical and Translational Medicine , Wiley Online Library	07/2021 - Present

MEDIA MENTIONS

1. [University City High School Student Joshua Yang Wins 8th Annual AMN/HCC Scholarship](#)
 - PRNewswire (2011)
2. [Top San Diego students honored at SeaWorld](#)
 - The San Diego Union-Tribune (2011)
3. [Calit2 Class of 2012: Undergraduate Scholars Begin Their Summer of Research](#)
 - Jacobs School of Engineering News (2012)
4. [UC San Diego Undergraduates Awarded National Goldwater Scholarships](#)
 - UCSD News Center (2014)

5. [Engaging the Next Generation of Leaders: Graduate Students in Sarwal Lab to Attend Clinton Global Initiative University](#)
 - [UCSF Surgery News \(2016\)](#)
6. [Grad Slam brings TED style to students' research projects](#)
 - [Berkeley News \(2016\)](#)
7. [Improving the odds for kidney transplant success](#)
 - [Berkeley Engineer Magazine \(2016\)](#)
8. [MedHacks 2016 winners built an app to get emergency responders to the right place](#)
 - [Technically \(2016\)](#)
9. [Student Spotlight: Medical Student and Entrepreneur: One and the Same](#)
 - [Johns Hopkins University Alumni and Friends Newsletter \(2017\)](#)
10. [Humanitarian diagnostics startup Helispot takes home first-ever IDT Synthetic Biology Grant Award](#)
 - [SynBioBeta \(2017\)](#)
11. [SoBran Bioscience at Maryland Tech Council's 30th Anniversary Industry Awards Celebration](#)
 - [SoBran Inc. \(2018\)](#)
12. [What You Need to Know About the First LGBTSTEM Day](#)
 - [OUT \(2018\)](#)
13. [Big Impact in Bio: Building Communities](#)
 - [Amgen Foundation \(2018\)](#)
14. [Big Impact in Bio: Innovating to Save Lives](#)
 - [Amgen Foundation \(2018\)](#)
15. [Interview: Joshua Yang, M.Eng.](#)
 - [PIHPS: Professionals in Health Podcasting Series \(2019\)](#)
16. [Carey Students Earn Multiple Awards in Recent Competitions](#)
 - [Carey News and Views \(2019\)](#)
17. [Four Graduate Students Surprised with \\$80,000 in Scholarships from Sallie Mae](#)
 - [Business Wire; MarketWatch; Associated Press \(2019\)](#)
18. [Nephrosant Eyes Launch of Urine-Based Kidney Transplantation Rejection Risk Assay](#)
 - [GenomeWeb \(2020\)](#)
19. [Meet Stanford GSB's MBA Class of 2021](#)
 - [Poets & Quants; Student Profile \(2020\)](#)
20. [Exclusive Survey: Most MBA Summer Internships Impacted By Pandemic](#)
 - [Poets & Quants \(2020\)](#)
21. [Stanford grad student wins top prize at Merck Innovation Cup](#)
 - [Stanford News; Merck Twitter \(2020\)](#)
22. [Siebel Scholars Foundation Announces Class of 2021](#)
 - [Business Wire; Stanford GSB Newsroom; Stanford News \(2020\)](#)
23. [A Summer in Spain as a Medical Researcher: The Spanish National Cancer Research Center Summer Training Fellowship Experience](#)
 - [ProFellow \(2020\)](#)
24. [Forbes 30 Under 30 2021 Healthcare](#)
 - [Forbes List; Forbes Profile \(2020\)](#)
 - [Eleven with ties to Johns Hopkins named to 'Forbes' 30 Under 30 list – Hub \(2020\)](#)
 - [Johns Hopkins Engineering students and alumni named to 'Forbes' 30 Under 30 list – JHU Engineering \(2020\)](#)
 - [Joshua Yang Snaps Up Coveted Forbes 30 Under 30 for Healthcare Nomination – Siebel Scholars \(2020\)](#)
25. [UC San Diego Academic Enrichment Programs Profile: Joshua Young Yang](#)
 - [UC San Diego \(2020\)](#)
26. [When U Grow Up: You want to invent stuff \(Pre-Season, Ep. 1\)](#)
 - [When U Grow Up Podcast \(2021\)](#)

RESEARCH EXPERIENCE

UCSF School of Medicine, Division of Transplant Surgery

09/2015 – Present

Advisors: [Minnie Sarwal, M.D. Ph.D.](#) & [Tara Sigdel, Ph.D.](#)

Development and validation of a noninvasive kidney injury diagnostic assay

Johns Hopkins University, Dept. of Bioengineering

11/2016 – 12/2018

Advisor: [Taekjip Ha, Ph.D.](#)

Development of an isothermal amplification method based on superhelicase technology

UCSD Jacobs School of Engineering, Dept. of Bioengineering

09/2014 – 05/2015

Advisor: [Shyni Varghese, Ph.D.](#)

Development of a lung-on-a-chip microfluidic platform

Spanish National Cancer Research Centre (CNIO), Cell Signaling Group

06/2014 – 08/2014

Advisor: [Daniel Lietha, Ph.D.](#)

Protein-protein interactions between AKT and PDK1 kinases

UCSD Jacobs School of Engineering, Dept. of Bioengineering

01/2013 – 06/2014

Advisor: [Gert Cauwenberghs, Ph.D.](#)

Development of a combined ultrasound Doppler and applanation tonometer

UCSD School of Medicine, Division of Rheumatology

12/2011 – 08/2015

Advisor: [Mary Patricia Corr, M.D.](#)

Diagnostic utility and pathogenicity of cfDNA in rheumatoid arthritis

STANDARDIZED TEST SCORES

SAT	2370/2400	99th Percentile
• Mathematics	800/800	
• Critical Reasoning	800/800	
• Writing	770/800	
MCAT (Medical College Admission Test) 05/17/2014	41/45	99th Percentile
• Biological Sciences	14/15	
• Physical Sciences	14/15	
• Verbal Reasoning	13/15	
GRE (Graduate Record Exam) 12/13/2014	346/346	99th Percentile
• Verbal Reasoning	170/170	
• Quantitative Reasoning	170/170	
• Analytical Writing	6/6	
USMLE (United States Medical Licensing Exam) Step 1 05/29/2018	264	99th Percentile