

# SARAH P. CHU

## Curriculum Vitae

(Updated June 2019)

### OFFICE

Innocence Project

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### GRADUATE PROGRAM

John Jay College of Criminal Justice / CUNY Graduate Center

Department of Criminal Justice

445 West 59th Street, New York, NY 10019

[schu@jjay.cuny.edu](mailto:schu@jjay.cuny.edu)

### EDUCATION

Projected completion 2023	Ph.D. Program in Criminal Justice, CUNY Graduate Center / John Jay College of Criminal Justice
2003	M.S. Epidemiology, Stanford University
2000	M.S. Biology, University of California, San Diego
1999	B.S. Biochemistry / Cell Biology, University of California, San Diego B.A. Communication, University of California, San Diego

### EMPLOYMENT

2008-present	Senior Advisor on Forensic Science Policy (2018-present) INNOCENCE PROJECT Senior Forensic Policy Advocate (2014-2018) Forensic Policy Advocate (2010-2014) Forensic Policy Associate (2008-2010)
2007-2008	Special Projects Manager, Office of the CEO VILLAGE ACADEMIES
2007-2007	Executive Recruiter MERCURY PARTNERS

2005-2007                      Director of Research  
LEDBETTERSTEVENS, INC

2003-2005                      Middle School Science Teacher, CIS 303 (Bronx, NY)  
CITY OF NEW YORK DEPARTMENT OF EDUCATION

## PUBLICATIONS

### *Articles*

Chu SP, Kelsey JL, Keegan TH, Sternfeld B, Prill M, Quesenberry CP, Sidney S. Risk factors for proximal humerus fracture. **Am J Epidemiol.** 2004 Aug 15;160(4):360-7.

Allen GJ, Murata Y, Chu SP, Nafisi M, Schroeder JI. Hypersensitivity of abscisic acid-induced cytosolic calcium increases in the Arabidopsis farnesyltransferase mutant era1-2. **Plant Cell.** 2002 Jul;14(7):1649-62.

Allen GJ, Chu SP, Harrington CL, Schumacher K, Hoffmann T, Tang YY, Grill E, Schroeder JI. A defined range of guard cell calcium oscillation parameters encodes stomatal movements. **Nature.** 2001 Jun8;411(6841):1053-7.

Allen GJ, Chu SP, Schumacher K, Shimazaki CT, Vafeados D, Kemper A, Hawke SD, Tallman G, Tsien RY, Harper JF, Chory J, Schroeder JI. Alteration of stimulus-specific guard cell calcium oscillations and stomatal closing in Arabidopsis det3 mutant. **Science.** 2000 Sep 29;289(5488):2338-42.

Allen GJ, Kwak JM, Chu SP, Llopis J, Tsien RY, Harper JF, Schroeder JI. Cameleon calcium indicator reports cytoplasmic calcium dynamics in Arabidopsis guard cells. **Plant J.** 1999 Sep;19(6):735-47.

### *Other Publications*

Sarah Chu taking “Pro” position and Barry Fisher taking “Con” position in *At Issue: Should forensic techniques require federal approval for use in court?*, CQ Researcher, Vol. 27, No. 6, February 10, 2017, p. 137.

Acknowledged for contributions to the following publications:

- National Institute of Standards and Technology *Latent Print Examination and Human Factors: Improving the Practice through a Systems Approach* (2012)
- President’s Council of Advisors on Science and Technology, *Forensic Science in Criminal Courts: Ensuring Scientific Validity of Feature-Comparison Methods* (2016)

## RESEARCH and GRANT EXPERIENCE

2000-2003                      Project Assistant. *Study of Women’s Health Across the Nation (SWAN)*. Steering Committee Chair: Jennifer Kelsey, PhD (Stanford University)

## PRESENTATIONS

2019. *Keynote Speaker. Integrating Contemporary Forensic Science Methods in the Modern Criminal Justice System, 2019 Forensic Science Symposium, John Jay College of Criminal Justice, New York, NY. (Forthcoming)*

2019. *Invited Discussant. Forensic Science Ten Years after the National Research Council Report, University of Houston Law Center, Houston, TX. (Forthcoming)*

2019. *The Fast and the Furious. (with Matthew Marvin, Ron Smith & Associates), International Association for Identification International Educational Conference, Reno, NV.*

2019. *Rethinking Policy and Regulation. Getting Forensics Right: Strengthening the Connection Between Forensics, Statistics, and Law Ten Years After "A Path Forward, Center for Statistics and Applications in Forensic Science (CSAFE) and Innocence Project, sponsored by the Duke Wrongful Convictions Clinic and Criminal Law Society, Raleigh, NC.*

2019. *Invited Discussant. The Duty to Correct Erroneous or Inadvertently Misleading Forensic Science Testimony. (with Bryce Benjet), 2019 American Academy of Forensic Sciences - 71st Annual Scientific Meeting, Baltimore, MD.*

2018. *Panel Five: A Path Forward, From the Crime Scene to the Courtroom: The Future of Forensic Science Reform, Georgia State University Law Review, Atlanta, GA.*

2017. *Assuring Quality Helps Ensure Justice, International Symposium on Forensic Science Error Management, National Institute of Standards and Technology, Gaithersburg, MD.*

2017. *Facilitating a Culture of Improvement in a Safe and Non-Adversarial Environment, (with Henry Swofford, U.S. Army Criminal Investigation Laboratory, Defense Forensic Science Center), American Society of Crime Laboratory Directors 2017 Symposium, Dallas, TX.*

2016. *Forensic Science in the United States: A Crossroad on the Path Forward, Taiwan Association for Innocence/Judicial Reform Foundation/Taipei Bar Association/Taiwan Criminal Defense Attorneys Association, Taipei, Taiwan.*

2016. *From Crime Scene to Courtroom: The Innocence Project's Role in Forensic Science Policy and Practice, EUROFORGEN-NoE International Dissemination Conference at the International Association of Legal Medicine, Venice, Italy.*

2015. *Facilitating a Culture of Improvement in a Safe and Non-Adversarial Environment (with Henry Swofford, U.S. Army Criminal Investigation Laboratory, Defense Forensic Science Center), IAI Centennial Conference: A Proud Past – A Bright Future, Sacramento, CA.*

2015. *Forensic Science Leaders on the Path Forward, 67th Annual Scientific Meeting of the American Academy of Forensic Sciences, Orlando, FL.*

2012. *Revisiting the NAS Report Three Years Later and Assessing the Role of Advisory Boards*, American Bar Association Criminal Justice Section, Third Annual Prescription for Criminal Justice Forensics, New York, NY.

2012. *Forensic Science Since the NAS Report: The Report, the Challenges, and the Proposed Fixes*, West Virginia University Forensic Science Initiative: Essentials of Forensic Science for Legal Professionals Program, Orlando, FL.

2011. *Strengthening Forensic Science: Legislative & Policy Update*, New England Association of Forensic Science, Newport, RI.

2011. *American Association for the Advancement of Science and Human Rights Coalition Meeting Discussion* (with Kenneth Melson, Acting Director of Bureau of Alcohol, Tobacco, Firearms and Explosives and Joseph Cecil, Project Director of its Program on Scientific and Technical Evidence, Federal Judicial Center), Washington DC.

2011. *Current Issues in Forensic Science: Legislative Update*, Joint Statistical Meetings, Statistics: An All Encompassing Discipline, Miami, FL.

2010. *The National Academy of Science Report on Forensic Science*, National Legal Aid & Defender Association: Life in Balance, Nashville, TN.

2010. *Report on the Progress of National Institute of Forensic Science Legislation in Congress*, 62nd Annual Scientific Meeting of the American Academy of Forensic Sciences: Putting Our Forensic House in Order: Determining Validation and Expelling Incompetence, Seattle, WA.

2010. *Past, Present, and Future of Forensic Science in the United States: Role of the Scientific Community in Forensic Science*, Annual Meeting of the American Association for the Advancement of Science: Bridging Science and Society, San Diego, CA.

2009. *The National Academy of Science Report: A Path Forward for Reliable Forensic Science*, National Association for Criminal Defense Lawyers, 8th Annual State Legislative Network Conference: Freedom, Justice and Equality: Ensuring Due Process Amid Economic Challenges, Boston, MA.

## TEACHING EXPERIENCE

### *Teaching Assistantships*

*Conservation and the Human Predicament*, University of California, San Diego

*Molecular Biology*, University of California, San Diego

## ACTIVITIES and SERVICE

### *Service to Academic Program*

2019-2020 Criminal Justice Doctoral Student Association Representative to the Executive Committee, PhD Program in Criminal Justice, John Jay College of Criminal Justice / CUNY Graduate Center

### *Service to Employer*

2017-2019 Diversity & Inclusion Committee, Innocence Project

### *Service to the Profession*

2017-present *Science, Technology and Forensics Committee*, Co-Chair  
Criminal Justice Section, American Bar Association

2015-2017 *Scientific Inquiry and Research Subcommittee*, Member  
National Commission on Forensic Science  
U.S. Department of Justice

### Reviewer

*American Journal of Epidemiology, PLOS Biology, FSI: Synergy*

### *Service to the Community*

MANHATTAN COMMUNITY BOARD 8 (2006 – present)  
*Co-Chair of Small Business Committee (2015-2019), Second Vice Chair (2012, 2013),  
Recording Secretary (2008, 2009)*

FRIENDS OF THE UPPER EAST SIDE HISTORIC DISTRICTS (2014—present)  
*Board of Directors (2015 - present)*

NYC COMMUNITY EDUCATION COUNCIL, DISTRICT 2 (2009-2013)  
*Treasurer (2010-2013), 2<sup>nd</sup> Vice President (2009-2010)*

### *Professional Training*

ANAB *Navigating the New ISO/IEC 17025:2017 Structure and Content* (July 2018)  
ANAB *Root Cause Analysis for Forensic Science Practitioners* (June 2017)  
Outcome Engenuity *Event Investigation Short Course* (June 2017)  
Organizational Analysis, Prof. Daniel McFarland, Stanford University, *Certificate offered online through Coursera* (July 2017)

## AWARDS and HONORS

NEW YORK STATE SENATE 2017 WOMAN OF DISTINCTION AWARD  
*Nominated by Senator Liz Krueger*

*UC Regents Scholar, UC San Diego, 1995-1999*

*UC San Diego Undergraduate Research Award, 1999*

## PROFESSIONAL AFFILIATIONS

American Bar Association

American Society of Criminology