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Sarah S. Kalia, ScM, LCGC

Professional Experience

Genome Medical — San Francisco, CA

Contract Genetic Counselor — Sept 2016 – present

- Provide pre- and post-test counseling via video or phone for proactive genomic screening and a variety of indications including cancer, cardiovascular, neurology, and reproductive genetic counseling
- Helped define telegenetics services and specialties offered
- Identified and interviewed genetic counselors and physicians for Genome Medical Services telegenetics network

Brigham and Women's Hospital — Boston, MA

Director of Research Development, Genomes2People (G2P) Research Program — Oct 2015 – July 2017

Associated Researcher, Broad Institute of MIT and Harvard — May 2016 – July 2017

Senior Project Manager and Genetic Counselor — Jun 2014 – Dec 2014

Project Manager and Genetic Counselor — Aug 2011 – Jun 2014

- Wrote, developed, and planned research grants and protocols as part of the G2P leadership team
- Led and supported writing and preparation of manuscripts
- Represented G2P Program in speaking engagements at national and international scientific conferences
- Consented participants for research genomic sequencing
- Disclosed genomic results and counseled research participants regarding medical implications
- Provided genetic counseling to patients in the BWH Adult Genetics Clinic

SoundRocket — Ann Arbor, MI

Consultant — Feb 2016 – July 2019

- Presented principles and best practices for communicating genomic information
- Conducted expert review of genomic reports and make recommendations
- Provided expert review of educational materials and surveys assessing comprehension of genetic results

Helix — San Francisco, CA

Consultant — Nov 2015 – Aug 2017

- Provided consultation on partner genomic interpretation products
- Drafted and guided development of protocols for human subjects research
- Reviewed and made recommendations on terms and conditions, privacy and other policies

Icahn School of Medicine at Mount Sinai — New York, NY

Senior Project Manager and Genetic Counselor — Jan 2015 – Oct 2015

- Created IRB protocols, informed consent forms, education, and recruitment materials for the Resilience Project
- Led research protocol development for next-generation sequencing of unused embryos from in vitro fertilization

Recombine — New York, NY

Associate Genetic Counselor — May 2013 – Jan 2015

- Provided phone genetic counseling to individuals and couples for expanded carrier screening results

Boston University School of Medicine — Boston, MA

Genetic Counselor — Feb 2011 – July 2011

- Provided clinical genetic counseling in preconception, pediatric, and adult settings
- Reviewed DNA test requisitions to ensure appropriate tests were ordered
- Wrote DNA diagnostic test reports and communicated results to ordering providers

UCLA Jonsson Comprehensive Cancer Center — Los Angeles, CA

Staff Research Associate II — Aug 2006 – Jun 2008

- Managed logistics of UCLA Family Cancer Registry; collected surveys, medical records, tissue samples
- Drafted correspondence to patients on behalf of genetic counselors
- Recruited patients for participation in research studies

Epic Systems Corporation — Madison, WI

Project Manager — Aug 2003 – Apr 2006

- Managed teams in designing and testing healthcare software and training users
- Audited customers' systems; prepared reports of recommendations and best practices

Academic Appointments

MGH Institute of Health Professions — Boston, MA

Adjunct Associate Professor — Sept 2020 – Jun 2023

Research Advising

MGH Institute of Health Professions, MS Program in Genetic Counseling — Boston, MA

Research Oversight Committee — Sept 2019 – present

Advisor, student capstone projects — Sept 2019 – present

Boston University, MS Program in Genetic Counseling — Boston, MA

Advisor, student capstone project — Mar 2014 – May 2015

Education

Harvard Graduate School of Arts and Sciences/
Harvard T.H. Chan School of Public Health — Cambridge, MA/ Boston, MA

Doctor of Philosophy (PhD), Population Health Sciences — 2017 – 2022 (expected)

Master of Science (SM), Biostatistics — 2022 (expected)

- Field of Study: Epidemiology; Specialization: Genetic Epidemiology
- Associate Member, Program in Quantitative Genomics
- Supported by NIH training grant T32 GM74897: Interdisciplinary Training in Statistical Genetics/Genomics & Computational Biology

Johns Hopkins Bloomberg School of Public Health/
National Human Genome Research Institute — Baltimore, MD/ Bethesda, MD

Master of Science (ScM), Genetic Counseling — 2008 – 2011

- Counseled patients in diverse clinical settings and as part of NIH research protocols
- Excelled at coursework in health services research and evaluation, epidemiology, biostatistics, qualitative research methods, research ethics, and counseling theory

Northwestern University — Evanston, IL

Bachelor of Arts (BA), Biological Sciences and Psychology — 1999 – 2003

Professional Development

Icahn School of Medicine at Mount Sinai — New York, NY

Community Research Education and Engagement for Data Science: Summer School in Computational Genomics — Jun 2018

Framingham Heart Study/ Boston University — Boston, MA

Genetic Epidemiology and Functional Genomics for Investigators: Applied Workshop — Sept 2016

Certifications and Licensure

Certified Genetic Counselor, American Board of Genetic Counseling

Licensed Genetic Counselor, Massachusetts and California

Professional Societies and Committee Leadership

National Society of Genetic Counselors

Research, Quality, and Outcomes Committee — Jan 2021 – Dec 2023

Jane Engelberg Memorial Fellowship Advisory Group — Jan 2017 – Dec 2021

- **Chair** — Jan 2020 – Dec 2020
- Review grant submissions, manuscripts and research project proposals; determine award recipients
- Promote scholarly investigation of genetic counseling with the goal of improving genetic counseling practice

Practice Guidelines Committee — Jan 2015 – Dec 2020

- **Chair** — Jan 2019 – Dec 2019
- **Vice Chair** — Jan 2018 – Dec 2018
- Developed protocols and standards for genetic counseling practice guidelines
- Evaluated proposed guideline topics for potential impact on genetic counseling practice
- Led evidence reviewers and guideline authors from proposal to publication

NSGC Leadership Development Program — Aug 2017 – Feb 2019

- Honed leadership skills to prepare for NSGC Committee Chair role, advance the NSGC strategic plan, mission and vision, and build high-performing teams to forward the profession

Precision Medicine Special Interest Group — Jan 2014 – Dec 2016

- **Chair** — Jan 2016 – Dec 2016
- **Vice Chair** — Jan 2015 – Dec 2015

Continuing Education Review Subcommittee — Jan 2015 – Dec 2015

American College of Medical Genetics and Genomics

Secondary Findings Maintenance Working Group — Jun 2015 – Jan 2018

Partners Healthcare Human Research Committee — Boston, MA

Reviewer and Voting Member — Jan 2012 – Feb 2014

- Evaluated clinical research protocols and consent forms to determine eligibility for IRB approval
- Recommended protocol and consent modifications to ensure sound study design and human subjects protection

Editorial Activities

***Ad hoc* Peer Reviewer**

Journal of Genetic Counseling

Genetics in Medicine

Journal of Medical Genetics

Publications

Kalia SS and James CA (2020). Focused revision: An addendum to a National Society of Genetic Counselors (NSGC) practice resource. *J Genet Couns,* 00:1.

Ormond, KE, O'Daniel JM, **Kalia SS** (2019). Secondary findings: How did we get here, and where are we going? *J Genet Couns*, 28(2):326-333.

Marshall AA, Zaccardelli A, Yu Z, Prado MG, Liu X, Miller Kroouze R, **Kalia SS**, Green RC, Triedman NA, Lu B, Deane KD, Iversen MD, Karlson EW, Sparks JA (2019). Effect of communicating personalized rheumatoid arthritis risk on concern for developing RA: A randomized controlled trial. *Patient Educ Couns,* 102(5):976-983.

Umstead KL, **Kalia SS**, Madeo AC, Erby LH, Blank TO, Visvanathan K, Roter DL (2018). Social comparisons and quality of life following a prostate cancer diagnosis. *J Psychosoc Oncol*, 36(3):350-363.

Sparks JA, Iversen MD, Yu Z, Triedman NA, Prado MG, Miller Kroouze R, **Kalia SS**, Atkinson ML, Mody EA, Helfgott SM, Todd DJ, Dellaripa PF, Bermas BL, Costenbader KH, Deane KD, Lu B, Green RC, Karlson EW (2018). Disclosure of personalized rheumatoid arthritis risk using genetics, biomarkers, and lifestyle factors to motivate health behavior improvements: A randomized controlled trial. *Arthritis Care Res*, 70(6):823-833.

Prado MG, Iversen MD, Yu Z, Miller Kroouze R, Triedman NA, **Kalia SS**, Lu B, Green RC, Karlson EW, Sparks JA (2018). Effectiveness of a web-based personalized rheumatoid arthritis risk tool with or without a health educator for knowledge of RA risk factors. *Arthritis Care Res*, 70(10):1421-1430.

Gray SW, Gollust WE, Carere DA, Chen CA, Cronin A, **Kalia SS**, Rana HQ, Ruffin MT, Wang C, Roberts JS, Green RC, for the PGen Study Group (2017). Personal Genomic Testing for Cancer Risk: Results from the Impact of Personal Genomics (PGen) Study. *J Clin Oncol*, 35(6):636-644.

Kalia SS, Adelman K, Bale SJ, Chung WK, Eng C, Evans JP, Herman GE, Hufnagel SB, Klein TE, Korf BR, McKelvey KD, Ormond KE, Richards CS, Vlangos CN, Watson M, Martin CL, Miller DT (2017). Recommendations for reporting of secondary findings in clinical exome and genome sequencing, 2016 update (ACMG SF v2.0): a policy statement of the American College of Medical Genetics and Genomics. *Genet Med*, 19(2):249-255.

Christensen K, **Kalia SS**, Green RC. Incidental and secondary findings from genetic testing. In: UpToDate, Post TW (Ed), UpToDate, Waltham, MA.

Krier JB, **Kalia SS**, Green RC (2016). Genomic sequencing in clinical practice: applications, challenges, and opportunities. *Dialogues Clin Neurosci,* 18(3): 299-312.

Meisel SF, Carere DA, Wardle J, **Kalia SS**, Moreno TA, Mountain JL, Roberts JS, Green RC, for the PGen Study Group (2015). Explaining, not just predicting, drives interest in personal genomics. *Genome Med,* 7:74.

Ostergren JE, Gornick MC, Carere DA, **Kalia SS**, Uhlmann WR, Ruffin MT, Mountain JL, Green RC, Roberts JS, for the PGen Study Group (2015). How Well Do Customers of Direct-to-Consumer Personal Genomic Testing (PGT) Services Comprehend Genetic Test Results? Findings from the Impact of Personal Genomics (PGen) Study. *Public Health Genomics*, 18(4): 216-24.

Waisbren SE, Bäck DK, Liu C, **Kalia SS**, Ringer SA, Holm IA, Green RC (2014). Parents are interested in newborn genomic testing during the early postpartum period. *Genet Med*, 17(6): 501-504.

Carere DA, Couper MP, Crawford SD, **Kalia SS**, Duggan JR, Moreno TA, Mountain JL, Roberts JS, Green RC, for the PGen Study Group (2014). Design, methods, and participant characteristics of the Impact of Personal Genomics (PGen) Study, a prospective cohort study of direct-to-consumer personal genomic testing customers. *Genome Med*, 6(12): 96.

Sparks JA, Iversen MD, Kroouze RM, Mahmoud TG, Triedman NA, **Kalia SS**, Atkinson ML, Lu B, Costenbader KH, Green RC, Karlson EW (2014). Personalized Risk Estimator for Rheumatoid Arthritis (PRE-RA) Family Study:

Rationale and design for a randomized controlled trial evaluating rheumatoid arthritis risk education to first-degree relatives. *Contemp Clin Trials*, 39(1): 145-157.

Green RC, Berg JS, Grody WW, **Kalia SS**, Korf BR, Martin CL, McGuire AL, Nussbaum RL, O'Daniel JM, Ormond KE, Rehm HL, Watson MS, Williams MS, Biesecker LG (2013). ACMG recommendations for reporting of incidental findings in clinical exome and genome sequencing. *Genet Med*, 15(7): 565–574.

Green RC, Berg JS, Berry GT, Biesecker LG, Dimmock D, Evans JP, Grody WW, Hegde M, **Kalia S**, Korf BR, Krantz I, McGuire, AL, Miller DT, Murray MF, Nussbaum RL, Plon SE, Rehm, HL, Jacob HJ (2012). Exploring concordance and discordance for return of incidental findings from clinical sequencing. *Genet Med*, 14(4):405-10.

Invited Presentations and Lectures

What's the Evidence? Genetic Counseling in the Era of Evidence-based Medicine. Workshop at 2020 virtual annual conference of the National Society of Genetic Counselors.

A Grant Writing Retreat to Jump Start Your Proposal. Pre-conference symposium at 2020 virtual annual conference of the National Society of Genetic Counselors.

Jane Engelberg Memorial Fellowship Presentation. Plenary session at 2020 virtual annual conference of the National Society of Genetic Counselors.

Secondary Findings in Clinical Practice. 2018 National Society of Genetic Counselors Public Policy Committee recorded lecture for genetic counseling training programs.

Direct-to-Consumer (DTC) Genetic Testing: Updates, Perceptions and Impacts. 2017 National Society of Genetic Counselors Member Webinar Series.

ACMG Secondary Findings Recommendations. April 2017 Jackson Heart Study Symposium on Return of Results, Jackson, MS.

Incidental Findings in Genetic Screening: To Report or Not to Report. 2016 annual National Marrow Donor Program Council meeting, Minneapolis, MN.

Genetic Counseling and the Precision Medicine Initiative. 2016 Festival of Genomics, Boston, MA.

Discussion Panel: The Future for Genomic Medicine. 2016 Festival of Genomics conference, Boston, MA.

Genomic Sequencing in Healthy Individuals: Research Outcomes, Healthcare Impact, and Roles for Genetic Counselors. 2016 annual meeting of New England Regional Genetics Group, Danvers, MA.

Secondary Findings in Clinical Sequencing. February 2016 lecture at Boston University School of Medicine.

ACMG Recommendations for Reporting of Incidental Findings in Clinical Exome and Genome Sequencing. "Genomic Data: Challenges to the Concept and Practice of Genetic Counselling" 2015 workshop, Institut Curie, Paris, France.

Genetic Counselling in The BabySeq Project: A Randomized Trial of Genomic Sequencing in Healthy and Sick Newborns. "Genomic Data: Challenges to the Concept and Practice of Genetic Counselling" 2015 workshop, Institut Curie, Paris, France.

ACMG Recommendations for Return of Incidental Findings in Clinical Sequencing. Sponsored by Macrogen, Inc. at 2014 annual meeting of American College of Medical Genetics and Genomics, Nashville, TN.

ACMG Recommendations for Return of Incidental Findings in Clinical Sequencing: Process, Product, and Ethical Considerations. February 2014 lecture at Boston University School of Medicine.

ACMG Recommendations for Return of Incidental Findings in Clinical Sequencing: Process and Product. Plenary session at 2013 annual education conference of the National Society of Genetic Counselors, Anaheim, CA.

Platform Presentations

Ceyhan-Birsoy O, Weipert CM, **Kalia SS**, Park PJ, Yu TW, Agrawal PB, Parad RB, Holm IA, McGuire A, Green RC, Beggs AH, Rehm HL. Selecting the right genes to report in newborn genomic sequencing: the BabySeq Project. 2015 annual meeting of ClinGen/DECIPHER, Washington, D.C.

Green RC, Lautenbach DM, **Kalia SS**, Splinter K, Beggs AH. The MedSeq and BabySeq Projects: Randomized Trials in Genomic Medicine. 2015 Festival of Genomics conference, Boston, MA.

Roberts JS, Christensen KD, **Kalia S**, Mountain J, Green RC. Direct-to-consumer genetic testing for risk of Alzheimer's disease (AD): the psychological and behavioral impact of APOE genotype disclosure. 2014 Alzheimer's Association International Conference, Copenhagen, Denmark.

Wang C, Dalia A, Roberts JS, **Kalia S**, Chen C, Ruffin M, Lehmann L, Mountain J, Moreno T, Green RC. Decisions to share results and seek further information following online personal genetic testing. 2014 annual meeting of Society of Behavioral Medicine, Philadelphia, PA.

Kalia SS, Rehm HL, Park PJ, Parad RB, Agrawal PB, Holm IA, McGuire AL, Liu C, Beggs AH, Green RC. The BabySeq Project: Genome Sequence-Based Screening for Childhood Risk and Newborn Illness. 2014 annual meeting of American College of Medical Genetics and Genomics, Nashville, TN.

Christensen KD, Roberts JS, **Kalia SS**, Mountain JM, Moreno T, Green RC, for the PGen Study Group. Short-term psychological benefits to consumer genetic testing: findings from the PGen Study. 2013 annual meeting of American Public Health Association, Boston, MA.

Gollust S, Gray SW, Chen C, Mountain J, Moreno T, Lehmann L, Koenig B, Sharp R, **Kalia SS**, Roberts JS, Green RC. Attitudes about regulating consumer genetic testing services: views from users. 2013 annual meeting of American Public Health Association, Boston, MA.

Wang C, Dalia AM, Roberts JS, **Kalia SS**, Chen C, Ruffin MT, Green RC, for the PGen Study Group. To share or not to share and with whom? Personal responses to consumer genetic testing. 2013 annual meeting of American Public Health Association, Boston, MA.

Kalia SS, Christensen KD, Chen CA, Mountain JL, Moreno TA, Roberts JS, Green RC, for the PGen Study group. Factors Influencing Healthcare Utilization in Response to Personal Genetic Testing. 2013 annual meeting of American Society of Human Genetics, Boston, MA.

Gray SW, Rana HQ, Gollust S, Chen CA, **Kalia S**, Mountain J, Roberts JS, Green RC, for the PGen Study Group. No evidence for increase in screening among women given report of moderately higher than average risk for breast cancer from personal genomics services: the PGen Study. 2013 annual meeting of American Society of Human Genetics, Boston, MA.

Poster Presentations

Swope B, **Kalia S**, Weissman SM, Fan A, Fine CA, Shabazz H, Gordon EG, Atwal P, Green RC, Bleyl SB. Experience with healthy individuals pursuing genomic screening: providing guidance for genomic counseling via a telemedicine approach. 2018 annual conference of the National Society of Genetic Counselors, Atlanta, GA.

Walsh RC, Genetti CA, Towne MC, Blout CL, **Kalia SS**, Schwartz TS, Hoffman-Andrews LB, Waisbren SE, Pereira S, Robinson JO, Agrawal PB, Parad RB, Holm IA, McGuire AL, Beggs AH, Green RC. Experiences and lessons from the BabySeq Project about parents' interest in newborn genomic sequencing. 2016 annual meeting of American College of Medical Genetics and Genomics, Tampa, FL.

Hoffman-Andrews L, Robinson JO, Blout C, **Kalia S**, Walsh R, Krier J, Jamal L, McGuire AL, Green RC, for the MedSeq Project. The association of monogenic findings from whole genome sequencing with known phenotypes: 4 case studies. 2016 annual meeting of American College of Medical Genetics and Genomics, Tampa, FL.

Kalia S, Weipert C, Walsh R, Hoffman-Andrews L, Towne M, Pereira S, Robinson J, Rehm H, Yu T, Park P, Parad R, Agrawal P, Holm I, McGuire A, Beggs A, Green R. The BabySeq Project: a randomized clinical trial examining the impact of genomic sequencing in newborns. 2015 Broad Institute Retreat, Boston, MA.

Porter H, Perry C, Campion MA, **Kalia S**. An exploration of the approach to family planning among adult siblings of individuals with an undiagnosed condition. 2015 annual education conference of the National Society of Genetic

Counselors, Pittsburgh, PA.

Waisbren SE, **Kalia SS**, Liu C, Duggan JR, Christensen KD, Green RC. Genomic newborn screening: parental interest and relationship to parental stress and bonding. 2014 annual meeting of American Society of Human Genetics, Nashville, TN.

Kaufman D, Chen C, **Kalia SS**, Green RC, Roberts JS. Reactions to mock genetic tests predict consumer health behaviors in response to their own genetic test results. 2013 annual meeting of American Society of Human Genetics, Boston, MA.

Meisel SF, Wardle J, Roberts JS, Mountain J, **Kalia SS**, Moreno T, Wang C, Green RC. Interest in genetic test feedback for risk of obesity: findings from the PGen Study. 2013 annual meeting of American Society of Human Genetics, Boston, MA.

Meisel SF, Wardle J, Mountain J, Moreno T, **Kalia SS**, Roberts JS, Green RC, for the PGen Study Group. Disease status and genetic testing among consumers of two personal genomics companies: findings from the PGen Study. 2013 annual meeting of American Society of Human Genetics, Boston, MA.

Kalia SS, Chen CA, Christensen KD, Mountain JL, Moreno TA, Roberts JS, Green RC, for the PGen Study group. Personal Genetic Testing: Predictors of Subsequent Healthcare Utilization. 2013 annual education conference of the National Society of Genetic Counselors, Anaheim, CA.

Kalia S, Petrides S, Levy H, Waisbren S, Green R. Parents' interest in genome screening for their newborns. 2013 annual meeting of American College of Medical Genetics and Genomics, Phoenix, AZ.

Green R, Christensen K, **Kalia S**, Mountain J, Kiefer A, Moreno T, MacBean E, Roberts JS, for the PGen Study Group. Motivations for seeking personal genetic testing vary by self-reported health. 2013 annual meeting of American College of Medical Genetics and Genomics, Phoenix, AZ.

Krier J, Christensen K, Chen C, **Kalia S**, Mountain J, Kiefer A, Moreno T, MacBean E, Roberts JS, Green RC. Which customers of personal genomics services plan to share results with healthcare professionals and geneticists? 2013 annual meeting of American College of Medical Genetics and Genomics, Phoenix, AZ.

Green RC, Mountain J, Kiefer A, Moreno T, MacBean E, **Kalia SS**, Roberts JS, for the PGen Study Group. Consumer Genomics: Motivations and Intentions. 2012 annual meeting of American Society of Human Genetics, San Francisco, CA.