

# MARSHA M. MICHIE

Assistant Professor  
Department of Bioethics  
Case Western Reserve University School of Medicine

10900 Euclid Avenue  
Cleveland, Ohio 44106-4976

*email:* marsha.michie@case.edu  
*office:* 216-368-6196 *mobile:* 919-268-1200  
marshamichie.com  
prenatalinformation.org

## STATEMENT

---

I am a bioethicist and social scientist who employs empirical research to investigate ethical questions in biomedicine. My scholarly work focuses on the experiences and interactions of people who are stakeholders in biomedical research, innovation, and practice.

I have conducted research with genomic research participants, people who have refused research participation, families seeking or dealing with genetic diagnoses, and various stakeholders in new technologies for prenatal testing—including clinicians, test developers, pregnant women, and disability advocates. My work is informed by bioethical principles, social theory, and literatures on identity, race, gender, practice, narrative, and disability. I am currently co-editing a volume entitled *Born Well: Prenatal Genomics and the Future of Having Children*, under contract with Springer.

I also teach and mentor students, postdocs, and other trainees in topics related to bioethics, qualitative social science, and the responsible conduct of research.

## EDUCATION AND TRAINING

---

- |           |   |
|-----------|---|
| 1990      | BA, Mathematics/Music, Agnes Scott College, Atlanta, Georgia  |
| 2010      | PhD, Anthropology, The University of North Carolina—Chapel Hill<br>Advisor: Glenn D. Hinson, PhD<br>Dissertation: <i>This broken vessel: Living religion in an independent Pentecostal church</i><br>(open access online: <a href="http://pqdtopen.proquest.com/#viewpdf?dispub=3404701">http://pqdtopen.proquest.com/#viewpdf?dispub=3404701</a> ) |
| 2010-2012 | Postdoctoral training (ELSI research), UNC Center for Genomics and Society<br>PI: Gail Henderson, PhD; Training Director: Debra Skinner, PhD  |
| 2012-2014 | Postdoctoral training (bioethics & genetics), Stanford Center for Biomedical Ethics<br>Center Director: David Magnus, PhD; Research Mentor: Mildred Cho, PhD  |

## GRANTS AND AWARDS

---

2019/23	NIH/NHGRI grant no. R01HG009668: “Prenatal Preparation: Actions and Results” (The PREPARE Study) (PI: Marsha Michie)
2018/20	CWRU Social Justice Institute Faculty Research Fellowship: “Clinician perspectives on racial disparities in infant mortality” (PI: Marsha Michie)
2014/18	NIH/NHGRI grant no. R00HG006452: “Mapping an ELSI-integrated translational pathway with cell-free fetal DNA testing” (PI: Marsha Michie)
2015	University of California Chancellor’s Fund: Faculty Learning and Development travel funding award
2015/17	NIH/NHGRI Loan Repayment Program Award (Clinical Research – Extramural)
2013/15	NIH/NHGRI Loan Repayment Program Award (Clinical Research – Extramural)
2012/14	NIH/NHGRI grant no. K99HG006452: “Mapping an ELSI-integrated translational pathway with cell-free fetal DNA testing” (PI: Marsha Michie; Co-mentors: Mildred Cho, Nancy Press)
2004/05	The Louisville Institute, Louisville Seminary: Dissertation fellowship
2000	UNC Center for the Study of the American South: McColl Summer Research Grant
2000	NSF Graduate Research Fellowship Program: Honorable mention
1998/99	UNC Graduate School Merit Assistantship
1990	Phi Beta Kappa

## APPOINTMENTS

---

2017 – present	<b>Assistant Professor</b> Department of Bioethics Case Western Reserve University School of Medicine
2014 – present	<b>Assistant Professor</b> UCSF Institute for Health & Aging and Dept. of Social & Behavioral Sciences Secondary appointment: Dept. of Obstetrics, Gynecology & Reproductive Sciences Collaborator in UCSF Bioethics and the UC Bioethics Collaboratory University of California, San Francisco
2012/14	<b>Postdoctoral Fellow</b> Center for Integration of Research on Genetic and Ethics Stanford Center for Biomedical Ethics, Stanford University Research and training under NHGRI Career Development Award (K99/R00): “Mapping an ELSI-integrated translational pathway with cell-free fetal DNA testing,” K99HG006452 (PI: Marsha Michie; Mentors: Mildred Cho, Nancy Press)
2010/12	<b>Postdoctoral Research Fellow</b> Center for Genomics and Society, UNC–Chapel Hill Qualitative data collection, data analysis, and writing for: <ul style="list-style-type: none"> <li>• Defining Clinical Relevance in Whole Genome Sequencing (PIs: D. Skinner, J. Evans)</li> <li>• ELSI Issues in Expanded Newborn Screening (PIs: D. Bailey, D. Skinner)</li> <li>• Ethical Approaches to Genotype-Driven Research Recruitment (PI: L. Beskow)</li> <li>• From Specimen to Biobank (PI: G. Henderson)</li> </ul>

## OTHER RESEARCH EXPERIENCE

---

- 2009/10      **Graduate Research Assistant**  
Center for Genomics and Society, UNC–Chapel Hill  
Qualitative data collection, data analysis, and writing for:
- ELSI Issues in Expanded Newborn Screening (PIs: D. Bailey, D. Skinner)
  - Ethical Approaches to Genotype-Driven Research Recruitment (PI: L. Beskow)
- 2008/09      **Graduate Research Assistant**  
Department of Social Medicine, UNC–Chapel Hill  
Qualitative data analysis and writing for:
- Learning About Research in North Carolina [LeARN] (PI: G. Corbie-Smith)
- 2001/09      **Graduate Research Assistant**  
Frank Porter Graham Child Development Institute, UNC–Chapel Hill  
Qualitative data collection, data analysis, and writing for:
- Culture and Family Interpretations of Genetic Disorders (PI: D. Skinner)
  - Family Adaptations to Fragile X Syndrome (PI: D. Bailey)
  - FirstSchool project planning grant (Director: S. Ritchie)
- 2002/03      **Interviewer**, Fast Track Project (PI: K. A. Dodge)  
Center for Child and Family Policy, Duke University
- 1998/2001    **Graduate Research Assistant**  
Department of Anthropology, UNC–Chapel Hill  
Research and manuscript preparation assistance for:
- Marisol de la Cadena (*Indigenous mestizos: The politics of race and culture in Cuzco, Peru*)
  - Glenn A. Hinson (research on North Carolina material culture)
  - Dorothy Holland, Donald Nonini & Catherine Lutz (*Local democracy under siege*)
  - Catherine Lutz (*Homefront: A military city and the American twentieth century*)
- 1997          **Research Assistant**  
Department of Anthropology, University of Tennessee–Knoxville  
Informant interviews, qualitative data analysis, and data presentation for:
- Great Smoky Mountains National Park Oral History Project (PI: B. Howell)

## TEACHING EXPERIENCE

---

- 2019 Fall      Reproductive Ethics Unit Coordinator, **Foundations in Bioethics** (BETH 401)  
Co-Facilitator, **Research Ethics Journal Club** (BETH 602)  
CWRU Department of Bioethics
- 2019 Spring    Course Director, **Foundations in Bioethics** (BETH 402)  
Co-Instructor, **Ethical Issues in Genetics/Genomics** (BETH 412)  
Co-Facilitator, **Research Ethics Journal Club** (BETH 602)  
CWRU Department of Bioethics

## TEACHING EXPERIENCE continued

---

- 2018 Fall      Reproductive Ethics Unit Co-coordinator, **Foundations in Bioethics** (BETH 401)  
Co-Facilitator, **Research Ethics Journal Club** (BETH 602)  
CWRU Department of Bioethics
- 2016 Summer,    Course Director, **Responsible Conduct of Research**  
2017 Summer    UCSF Clinical & Translational Science Institute
- 2015 Summer    Course Co-Director, **Responsible Conduct of Research**  
UCSF Clinical & Translational Science Institute (Course director: Barbara Koenig)
- 2014 Summer    Teaching Fellow, **Responsible Conduct of Research**  
UCSF Clinical & Translational Science Institute (Course director: Barbara Koenig)
- 2014 Winter     Instructor, **Responsible Conduct of Research**  
Stanford Center for Biomedical Ethics
- 2013 Spring     Postdoctoral Co-Instructor, **Foundations of Biomedical Ethics**  
Stanford University (Instructor: David Magnus)
- 2006 Spring     Instructor, **General Anthropology**  
Department of Anthropology, UNC–Chapel Hill
- 2002 Summer    Instructor, **Anthropology of Race Relations**  
Department of Anthropology, UNC–Chapel Hill
- 2001 Fall –  
2003 Spring     Co-instructor, **UNITAS service-learning seminar on diversity**  
Department of Anthropology, UNC–Chapel Hill
- 1999-2005      Graduate Teaching Assistant, UNC–Chapel Hill Department of Anthropology:
- **Moral Consciousness** (Terry Evens, 2005)
  - **Alternative Healing Systems** (Kaja Finkler, 2001)
  - **Consciousness and Symbols** (James Peacock, 2000)
  - **Local Cultures, Global Forces** (Marisol de la Cadena, 1999 & 2000)
  - **Southern Style, Southern Culture** (Glenn Hinson, 1999)

## PUBLICATIONS

---

### Peer-reviewed publications

- Michie M.** Is preparation a good reason for prenatal genetic testing? Ethical and critical questions. *Birth Defects Research* in press.
- Riggan K, Nyquist C, **Michie M**, Allyse M. Evaluating the risks and benefits of genetic and pharmacology interventions for Down syndrome: Views of parents. *American Journal of Intellectual and Developmental Disabilities* in press.

**PUBLICATIONS** continued

---

**Peer-reviewed publications continued**

- Farrell R, Agatista P, **Michie M**, Green A, Ford P. The personal utility of cfDNA screening: Pregnant patients' experiences with cfDNA screening and views on expanded cfDNA panels. *Journal of Genetic Counseling* online ahead of print. PubMed ID: 31680382.
- Farrell RM, **Michie M**, Scott CT, Flyckt R, LaPlante M. (2019) Prioritizing women's health in germline editing research. *AMA Journal of Ethics* 21(12):1071–8.
- Snure E, Deutch N, **Michie M**, Allyse M, Riggan K, Ormond K. (2019) Attitudes towards hypothetical gene editing technologies in parents of people with autosomal aneuploidies. *CRISPR Journal* 2(5):324-330. PubMed ID: 31599684.
- Ormond KE, Bombard Y, Bonham V, Hoffman-Andrews L, Howard H, Isasi R, Musunuru K, Riggan K, **Michie M\***, Allyse M\*. (2019) The clinical application of gene editing: ethical and social issues. *Personalized Medicine* 16(4):337-350. PubMed ID: 31331245.
- Skotko BG, Allyse M, Bajaj K, Best R, Klugman S, Leach M, Meredith S, **Michie M**, Stoll K, Gregg, AR. (2019) Adherence of cell-free DNA noninvasive prenatal screens to ACMG recommendations. *Genetics in Medicine* 21(10):2285-2292. PubMed ID: 30940924.
- Allyse M, Bombard Y, Isasi R, **Michie M**, Musunuru K, Ormond KE. (2019) What do we do now?: Responding to claims of germline gene editing in humans. *Genetics in Medicine* 21(10):2181-2183. PubMed ID: 30914827.
- Michie M**, Allyse M. (2019) Gene modification therapies: Views of parents of people with Down syndrome. *Genetics in Medicine* 21(2):487-492. PubMed ID: 29930393.
- Michie M**, Allyse M, Stoll K, Master Z. (2018) Weaponizing hope: Sources of hope, unrealistic optimism, and denial. *American Journal of Bioethics* 18(9):25-27.
- Allyse M, Aypar U, Bonhomme N, Darilek S, Dougherty M, Farrell R, Grody W, Highsmith E, Jr., **Michie M**, Nunes M, Pabst R, Palomaki G, Runke C, Sharp R, Skotko B, Stoll K, Wick M. (2017) Offering prenatal screening in the age of genomic medicine: A practical guide. *Journal of Women's Health* 26(7):755-761. PubMed ID: 28388340.
- Stoll K, Mackison A, Allyse A, **Michie M**. (2017) "Conflicts of interest in genetic counseling: Acknowledging and accepting." *Genetics in Medicine* 19(8):864-866. PubMed ID: 28125084.
- Mozersky J, Ravitsky V, **Michie M**, Chandrasekharan S, Rapp R, Allyse M. (2017) Towards an ethically sensitive implementation of noninvasive prenatal screening in the global context. *Hastings Center Report* 47(2):41-49. PubMed ID: 28301696.
- Allyse M, Evans JP, **Michie M**. (2017) Dr. Pangloss's clinic: Prenatal whole genome sequencing and a return to reality. *American Journal of Bioethics* 17(1): 21-23. PubMed ID: 27996895.
- Michie M**, Kraft S, Minear M, Ryan R, Allyse M. (2016) Informed consent for prenatal cfDNA screening: Evaluation of written materials and recommendations. *Ethics, Medicine, and Public Health* 2(3): 362-371. PubMed ID: 27699200.

**PUBLICATIONS** continued

---

**Peer-reviewed publications continued**

- Gammon EL, Kraft SA, **Michie M**, Allyse MA. (2016) "I think we've got too many tests!": Prenatal providers' reflections on ethical and clinical challenges in the practice integration of cell-free DNA screening. *Ethics, Medicine, and Public Health* 2(3): 334-342. PubMed ID: 28180146.
- Floyd E, Allyse M, **Michie M**. (2016) Spanish- and English-speaking pregnant women's views on cfDNA and other prenatal screening: Practical and ethical reflections. *Journal of Genetic Counseling* 25(5): 965-977. PubMed ID: 26739840.
- Meredith S, Kaposy C, Miller V, Allyse M, Chandrasekharan S, **Michie M**, on behalf of the Prenatal Testing PAG Coalition. (2016) Impact of the increased adoption of prenatal cfDNA screening on non-profit patient advocacy organizations in the United States. *Prenatal Diagnosis* 36(8): 714-719. PubMed ID: 27244688.
- Steinbach R, Allyse M, **Michie M**, Liu E, Cho M. (2016) "This lifetime commitment": Public conceptions of disability and noninvasive prenatal genetic screening. *American Journal of Medical Genetics Part A* 170(2): 363-374. PubMed ID: 26566970.
- Allyse M, **Michie M**, Mozersky J, Rapp R. (2015) Cherchez la femme: Reproductive CRISPR and women's choices. *American Journal of Bioethics* 15(12):47-9. PubMed ID: 26632363.
- Haase R, **Michie M**, Skinner D. (2015) Flexible positions, managed hopes: The promissory bioeconomy of a whole genome sequencing cancer study. *Social Science & Medicine* 130:146-53. PubMed ID: 25697637.
- Allyse M, Goodspeed T, Sayres L, **Michie M**, Cho M. (2015) 'Don't want no risk and don't want no problems': Public understandings of the risks and benefits of novel prenatal genetic technologies in the United States. *AJOB Empirical Bioethics* 6(1):5-20. PubMed ID: 25932463.
- Allyse M, **Michie M**. (2013) Not-so-incidental findings: The ACMG recommendations on the reporting of incidental findings in clinical whole genome and whole exome sequencing. *Trends in Biotechnology* 31(8):439-441. PubMed ID: 23664778.
- Henderson G, Juengst E, King N, Kuczynski K, **Michie M**. (2012) What research ethics should learn from genomics and society research: Lessons from the ELSI Congress of 2011. *Journal of Law, Medicine, and Ethics* 40(4):1008-1024. PubMed ID: 23289702.
- Michie M**, Cadigan RJ, Henderson G, Beskow LM. (2012) Am I a control? Genotype-driven research recruitment and self-understandings of study participants. *Genetics In Medicine* 14(12):983-989. PubMed ID: 22935717.
- Beskow LM, Namey EE, Cadigan RJ, Brazg T, Crouch J, Henderson G, **Michie M**, Nelson DK, Tabor HK, Wilfond BS. (2011) Research participants' perspectives on genotype-driven research recruitment. *Journal of Empirical Research on Human Research Ethics* 6(4): 3-20. PubMed ID: 22228056.
- Cadigan RJ, **Michie M**, Henderson G, Davis AM, Beskow LM. (2011) The meaning of genetic research results: Reflections from individuals with and without a known genetic disorder. *Journal of Empirical Research on Human Research Ethics* 6(4): 30-40. PubMed ID: 22228058.

**PUBLICATIONS** continued

---

**Peer-reviewed publications continued**

**Michie M**, Henderson G, Garrett J, Corbie-Smith G. (2011) “If I could in a small way help”: Motivations for and beliefs about sample donation for genetic research. *Journal of Empirical Research on Human Research Ethics* 6(2): 57-70. PubMed ID: 21680977.

**Michie M**, Skinner D. (2010) Narrating disability, narrating religious practice: Reconciliation and fragile X syndrome. *Intellectual and Developmental Disabilities* 48(2): 99-111. PubMed ID: 20597744.

**Other publications**

I regularly blog for the Prenatal Information Research Consortium: <http://prenatalinformation.org/>

Stoll K, Mackison A, Allyse A, **Michie M**. (2018) Conflicts of interest in genetic counseling: Persistent underlying questions. *Genetics in Medicine* 20(9): 1096-1097. [Letter of reply to “Conflicts of interest in genetic counseling: Addressing and delivering” and “Conflicts of interest in genetic counseling: Acknowledging and accepting.”]

Parham L, **Michie M**, Allyse M. (2017) Expanding use of cfDNA screening in pregnancy: Current and emerging ethical, legal, and social issues. *Current Genetic Medicine Reports* 5(1): 44-53.

Stoll K, Mackison A, Allyse M, **Michie M**. (2017) Genetic counselors, genetic interpreters, and conflicting interests (Harvard Law Petrie-Flom Center’s Bill of Health Blog). <http://blogs.harvard.edu/billofhealth/2017/03/09/genetic-counselors-genetic-interpreters-and-conflicting-interests/>

**Michie M**. (2016) Addressing the ethical challenges of noninvasive prenatal testing. *Science of Caring* September 2016. <http://scienceofcaring.ucsf.edu/health-public/addressing-ethical-challenges-noninvasive-prenatal-testing>

Ravitsky R, Mozersky J, **Michie M**, Rapp R, Allyse M, Chandrasekharan S. (2016) Non-invasive prenatal testing in the non-Western context. *BioNews* 25 January 2016. [http://www.bionews.org.uk/page\\_609274.asp](http://www.bionews.org.uk/page_609274.asp)

Minear MA, Alessi S, Allyse M, **Michie M**, Chandrasekharan S. (2015) Noninvasive prenatal genetic testing: Current and emerging ethical, legal, and social issues. *Annual Review of Genomics and Human Genetics* 16:369-398. PubMed ID: 26322648.

**Michie M**, Allyse M. (2015) Old questions, new paradigms: Ethical, legal, and social complications of non-invasive prenatal testing. *AJOB Empirical Bioethics* 6(1):1-4. PubMed ID: 26185771.

Allyse M, **Michie M**. (2013) You Can't Predict Destiny by Designing Your Baby's Genome. *The Wall Street Journal* Nov. 9, 2013.

**Michie M**, Skinner D. (2010) Religion in life stories: Answering the “why?”s of fragile X syndrome. *Fragile X Quarterly* 38 (June): 14-15, 24.

**Michie M**. (2009) Church dramas. In Hinson, G. and Ferris, B., eds. *Encyclopedia of Southern Culture: Folklife*. Chapel Hill: University of North Carolina Press.

## **PUBLICATIONS** continued

---

### **Other publications continued**

**Michie M.** (2004) "I know Bush prays": Hearing religion in the 2004 U.S. presidential race. *MensenStreken* 6(2): 11-13.

### **Manuscripts under review**

Mador-House R, **Michie M**, Rao C, Constantine M, Allyse M. "Pregnant women's experiences and attitudes after cell free DNA screening."

Narkeviciute A, **Michie M**, Hebner A, Hudgins L, Black L. "Emotional and decision making responses to all-aneuploid results in preimplantation genetic testing for aneuploidy."

### **Manuscripts in preparation**

#### *Book manuscript:*

Allyse M & **Michie M**, co-editors. *Born Well: Prenatal Genomics and the Future of Having Children*. Under contract with Springer, due spring 2018 (for series: International Library of Ethics, Law, and the New Medicine; series ed. DN Weisstub, DR Cooley).

#### *Article manuscripts:*

**Michie M.** "Flavors of Down Syndrome': Understanding non-invasive prenatal testing through the lens of trisomy 21."

**Michie M**, Wapner R. "Getting genomic diagnostics from the lab to the clinic: Integrating ethical and social guidance into the translational pathway."

**Michie M.** "Scaffolding translation: A new model of the translational pathway for genomic diagnostics."

## **INVITED PRESENTATIONS**

---

### **National/International**

**Michie M**, Stoll K, Ayers K, Constantino J, Van den Veyver I, Meredith S. "The intersection of genetics and the disability rights movement: Beginning a dialogue about the impact of prenatal genetic screening and testing on historically stigmatized populations." Panel presentation. American Society for Human Genetics Annual Meeting; Houston, TX, October 2019.

**Michie M.** "Commercial labs and prenatal testing: Ethical, legal, social, and policy considerations." Boot Camp: A Short Course on Genetics and Genomics (organized by Perinatal Quality Foundation, New York Genome Center, Columbia and UCSF); New York, NY, July 2019.

Garland-Thomson R, **Michie M**, Stoll K. "Surge in genetic testing: What does it mean for reproductive health, rights and justice?" Webinar. Center for Genetics and Society, Assisted Reproductive Technology Working Group (Berkeley, CA); February 2019.

**Michie M.** "Ethical and Social Issues in Translating cfDNA Screening into Routine Prenatal Care." Advances in Prenatal Molecular Diagnostics (Cambridge Healthtech Institute); Cambridge, MA, October 2018.

## **INVITED PRESENTATIONS** continued

---

### **National/International**

- Michie M.** “Clinical and regulatory landscape of the US.” International Context-sensitive Practice in Prenatal Counseling and Clinical Practice (ISPD preconference course); Antwerp, Belgium, July 2018.
- Michie M.** “Scaffolding bioethics in translational genomics.” Precision Genomics Midwest; Cincinnati, OH, May 2018.
- Michie M.** “Social accountability in research.” Guest webinar. Éxito! Latino Cancer Research Leadership Training (Institute for Health Promotion Research, UT Health San Antonio); June 2017.
- Michie M.** “Ethical and social issues in the clinical implementation of NIPS.” Ob/Gyn Geneticists Special Interest Group, American College of Medical Genetics & Genomics Annual Clinical Genetics Meeting; Phoenix, AZ, March 2017.
- Michie M.** “Where questions become answers: Ethics along the translational pathway for genomics.” Duke University Trent Center for Bioethics, Humanities and History of Medicine; Durham, NC, February 2017.
- Michie M.** “Women and clinicians as stakeholders in prenatal cfDNA screening: Understandings, opinions, values.” Hastings Center meeting, “Goals and Practices for Next-Generation Prenatal Testing”; Garrison, NY, June 2016.
- Michie M.** “Delivering and receiving uncertain genomic information about PNB traits in prenatal testing and newborn screening: Values and priorities of stakeholders.” Columbia University-Hastings Center workshop, “Detecting Variants Associated with Psychological, Neurological, and Behavioral Traits at a Moment When Prenatal Testing and Newborn Screening May Be Converging”; New York, NY, April 2016.
- Michie M.** “Non-invasive prenatal genetic testing: Mapping bioethics in translation.” University of Cincinnati Center for Clinical & Translational Science & Training, January 2014.
- Michie M.** “Non-invasive prenatal genetic testing: Mapping bioethics in translation.” Washington University in Saint Louis Institute of Clinical & Translational Sciences, December 2013.

### **Local**

- Michie M.** “Data use, data sharing, and return of results.” Guest lecture. CWRU course BETH 503: Research Ethics and Regulation (P. Marshall, instructor); November 2019.
- Michie M.** “Reproductive ethics: Principles and topics.” Guest lecture. CWRU course PAST 406: Ethics in Healthcare Delivery (L. Jeunnette, instructor); February 2019.
- Michie M.** “Developments in prenatal screening and testing: Ethical and social implications for patients and providers.” MetroHealth Medical Center Bioethics@Noon; February 2019.
- Michie M.** “Professional integrity and professional misconduct.” Guest lecture. CWRU course BETH 503: Research Ethics and Regulation (P. Marshall, instructor); November 2018.

## INVITED PRESENTATIONS continued

---

### Local continued

- Michie M.** “Data use, data sharing, and return of results.” Guest lecture. CWRU course BETH 503: Research Ethics and Regulation (P. Marshall, instructor); October 2018.
- Michie M.** “The ethics of big data.” Guest lecture. CWRU course BETH 402: Foundations in Bioethics II (I. Hyun, instructor); February 2018.
- Michie M.** “The scaffold is not the building: Ethically translating genomic innovations.” CWRU Genetics Grand Rounds; October 2017.
- Michie M.** “Reproductive technologies: Ethical considerations.” Guest lecture. CWRU course BETH 401: Foundations in Bioethics I (M. Aulisio, instructor); October 2017.
- Michie M.** “Patient support groups and the impact of prenatal cell-free DNA screening.” Northern California Coalition of Genetic Counselors Conference; San Mateo, CA, June 2017.
- Michie M.** “Ethical and social issues in the clinical translation of prenatal cfDNA screening.” Guest lecture. UCSF course N294C: Clinical Genomics (E. Flowers, instructor); Spring 2017.
- Michie M, Dzeng L.** “Research ethics: Principles and problems.” Guest lecture. UCSF Inquiry Immersion 1 (1st year medical school curriculum; S. Oakes, instructor); January 2017.
- Michie M.** “Ethnography and qualitative health research.” Guest lecture. University of California, Berkeley course Anthropology 169B: Research Theory and Methods in Socio-Cultural Anthropology (M. George, instructor); July 2016.
- Michie M.** “Non-invasive prenatal testing.” Guest lecture. Stanford University course HumBio274: Foundations of Bioethics (D. Magnus, instructor); April 2016.
- Michie M.** “Translating cfDNA: Social and ethical implications, empirical and policy efforts.” UCSF Institute for Health & Aging faculty seminar series, February 2016.
- Michie M.** “Bioethics and genomics across the lifespan.” UCSF Institute for Health & Aging 30th Anniversary Symposium, November 2015.
- Michie M.** “NIPGS: Ethical and Social Considerations.” Guest lecture. UCSF course N294B: Medical Genetics for Nursing (E. Flowers, instructor); April 2015.
- Michie M.** “Gatekeepers & the wild west: Ethics and non-invasive prenatal genetic testing.” UCSF Institute for Human Genetics seminar series, March 2015.
- Michie M.** “Non-invasive prenatal genetic testing: Social & ethical implications.” UCSF School of Nursing research series, February 2015.
- Michie M.** “Non-invasive prenatal genetic testing: Mapping bioethics in translation.” UCSF Institute for Health & Aging, February 2014.
- Haase R, **Michie M**, Skinner D. “Gifts of the Body: Expectations of Cancer Patients Involved in a Whole Genome Sequencing (WGS) Study.” UNC-Chapel Hill Center for Genomics and Society, November 2011.

## OTHER SELECTED PRESENTATIONS

---

- Michie M**, Arora K, Allyse M, Farrell R. “Moving forward in women’s health: Addressing reproductive health disparities.” Panel presentation. American Society for Bioethics and Humanities Annual Meeting; Pittsburgh, PA, October 2019.
- Ford M, Ossler S, Cohen L, **Michie M**. “Preparation for a child with a genetic condition: What is gained from prenatal diagnosis when parents choose not to terminate?” Poster presentation. American Society for Human Genetics Annual Meeting; Houston, TX, October 2019.
- Snure E, Deutch N, **Michie M**, Riggan K, Allyse M, Ormond K. “Attitudes Towards Gene Editing Technologies in Parents of People with Trisomy 21.” Poster presentation. American College of Medical Genetics Annual Clinical Genetics Meeting; Seattle, WA, April 2019.
- Michie M**, Allyse M, Bonham V, Ormond K. “The future of gene editing: Community voices.” Panel presentation. American Society for Bioethics and Humanities Annual Meeting; Anaheim, CA, October 2018.
- Allyse M, **Michie M**. “Prenatal surgery and gene therapy in fetuses with Down syndrome: Views of parents.” Poster presentation. International Society for Prenatal Diagnosis Annual Meeting; Antwerp, Belgium, July 2018.
- Allyse M, Nyquist C, Simonson G, **Michie M**. “Gene therapy for congenital genetic conditions: Views of parents.” Poster presentation. American College of Medical Genetics Annual Clinical Genetics Meeting; Charlotte, NC, April 2018.
- Michie M**. “Scaffolding translation: A model for ethical and social guidance of translational genomic medicine.” American Society for Bioethics and Humanities Annual Meeting; Kansas City, October 2017.
- Michie M**. “Translating cfDNA screening: Ethical and social issues along the pathway.” Poster presentation. 2017 ELSI Congress; Farmington, CT, June 2017.
- Mador-House R, **Michie M**, Constantine M, Allyse M. “Pregnant Women’s Experiences and Attitudes after Cell Free DNA Screening.” Poster presentation. 2017 Northern California Genetics Exchange; Madera, CA, May 2017.
- Allyse M, Kraft S, **Michie M**. “The effects of delivery context on women’s experiences of prenatal cfDNA screening: A tale of two studies.” Poster presentation. American College of Medical Genetics Annual Clinical Genetics Meeting; Phoenix, AZ, March 2017.
- Feist C, Meredith S, Allyse M, Miller V, Cover V, **Michie M**, Carroll L. “Challenges of prenatal cell-free DNA screening from the patient advocacy perspective.” Panel presentation. National Society of Genetic Counselors Annual Education Conference; Seattle, WA, October 2016.
- Allyse M, Farrell R, **Michie M**. “Commercialization of prenatal genetic screening and its ethical implications.” American Society for Bioethics and Humanities Annual Meeting; Washington, DC, October 2016.
- Ikemoto L, **Michie M**, Allyse M, O’Keefe M. “CRISPR dreams and women's bodies: Ethics, theology, and public opinion about human germline modification through assisted reproduction.” American Society for Bioethics and Humanities Annual Meeting; Washington, DC, October 2016.

**OTHER SELECTED PRESENTATIONS** continued

---

Duffy A, Martin A, O’Keefe M, **Michie M**, Yarborough M, Wheelock V. “First-in-human stem cell trials in Huntington’s disease: A bioethics survey.” Platform presentation. American Academy of Neurology annual meeting; Vancouver, BC, April 2016.

Allyse M, **Michie M**, Johnston J. “Responsible Motherhood Inc.: How genetic testing companies are shaping what it means to be a good parent.” Panel presentation. Alden March Bioethics Center conference, “Reproductive Ethics: New Challenges and Conversations”; Albany, NY, April 2016.

**Michie M**, Allyse M, Kraft S, Chandrasekharan S, Mozersky J. “Expanded prenatal cfDNA screening: Genetic counselors’ opinions regarding provider education needs.” Poster presentation. American College of Medical Genetics Annual Clinical Genetics Meeting; Tampa, FL, March 2016.

**Michie M**, Alessi S, Allyse M, Ryan R, Minear M. “‘I have read and I understand’: Informed consent documentation for noninvasive prenatal genetic screening.” American Society for Bioethics and Humanities Annual Meeting; Houston, TX, October 2015.

Alessi S, Allyse M, **Michie M**. “‘It just seems sort of crazy that it works’: Physician perspectives on the ethics and clinical translation of noninvasive prenatal genetic screening.” American Society for Bioethics and Humanities Annual Meeting; Houston, TX, October 2015.

Farrell R, Allyse M, Chandrasekharan S, **Michie M**. “Advances in prenatal genetic testing and the human experience: Looking through the lens of noninvasive prenatal genetic testing (NIPT).” Panel. American Society for Bioethics and Humanities Annual Meeting; Houston, TX, October 2015.

Ryan R, Alessi S, Allyse M, Minear M, **Michie M**. “Patient education and informed decision-making: An assessment of consent documents for non-invasive prenatal genetic screening.” Poster presentation. National Society of Genetic Counselors Annual Meeting; Pittsburgh, PA, October 2015.

Duffy A, Martin A, O’Keefe M, **Michie M**, Yarborough M, Wheelock V. “First-in-human stem cell trials in Huntington’s disease: A bioethics survey.” Poster presentation. Huntington Study Group Annual Meeting; Tampa, FL, October 2015.

**Michie M**, Floyd E, Allyse M. “Opinions and informational needs about NIPT/NIPGS among Spanish- and English-speaking pregnant women in California.” Poster presentation. International Society for Prenatal Diagnosis annual meeting; Washington, DC, July 2015.

Allyse M, **Michie M**, Kraft SM, Constantine M, Rao C. “Women’s experience of genetic counseling for non-invasive prenatal genetic screening.” Poster presentation. International Society for Prenatal Diagnosis annual meeting; Washington, DC, July 2015.

Kraft SM, Allyse M, **Michie M**. “Reflections of prenatal care providers on the clinical implementation of noninvasive prenatal genetic screening.” Poster presentation. International Society for Prenatal Diagnosis annual meeting; Washington, DC, July 2015.

**Michie M**, Alessi S, Allyse M, Minear M, Ryan R. “Informed decision-making about NIPT/NIPGS: An assessment of written materials.” Poster presentation. American College of Medical Genetics Annual Clinical Genetics Meeting; Salt Lake City, UT, March 2015.

**OTHER SELECTED PRESENTATIONS** continued

---

**Michie M.** ““There’s no room for maybe”: Translating non-invasive prenatal testing from research to prenatal care.” Regional CEER (Center for Excellence in ELSI Research) meeting; Seattle, WA, February 2015.

Alessi S, **Michie M**, Allyse M, Cho M. “Provider insights on noninvasive prenatal testing: Emerging themes in clinical practice.” Poster presentation. American College of Medical Genetics Annual Clinical Genetics Meeting; Nashville, TN, March 2014.

**Michie M.** “The imagined child and the dilemma of prenatal genetic diagnosis.” American Anthropological Association annual meetings; Chicago, IL, November 2013.

**Michie M**, Mozersky J, Allyse M, Cho M. “The same, but different: Attitudes and experiences of non-invasive prenatal testing from the patient, the provider and the public.” Panel organizer/presenter. American Society for Bioethics and Humanities Annual Meeting; Atlanta, GA, October 2013.

**Michie M**, Allyse M, Cho M. “Comprehension and preferences of pregnant women regarding cell-free fetal DNA testing.” Poster presentation. American College of Medical Genetics Annual Clinical Genetics Meeting; Phoenix, AZ, March 2013.

Skinner D, Raspberry K, **Michie M**, Haase R. “Ethnography of the result: How findings from whole exome sequencing are made.” ESRC Genomics Network Conference; London, UK, April 2012.

**Michie M**, Cadigan RJ, Henderson G, Beskow LM. “Am I a control? Genotype-driven research recruitment and self-understandings of study participants.” Poster presentation. Public Responsibility In Medicine & Research (PRIM&R); National Harbor, MD, December 2011.

Namey E, **Michie M**, Brazg T. “Genotype-driven research recruitment and the return of individual genetic results.” Workshop. Genetic Alliance annual conference; Bethesda, MD, June 2011.

**Michie M**, King M, Haase R, Press N. “Innovative methods in qualitative data analysis.” Panel organizer/presenter. NHGRI ELSI Congress; Chapel Hill, NC, April 2011.

**Michie M.** “Genesis and revelations: Religious identities in narratives of comings and goings.” Society for the Scientific Study of Religion annual meeting; Baltimore, MD, October 2010.

**Michie M.** “Holding hands through hell: Engaged fieldwork during a pentecostal coming-out crisis.” Society for the Anthropology of Religion bi-annual meeting; Pacific Grove, CA, March 2009.

Kuczynski K, Hall F, **Michie M**, Skinner D. “Parents’ lived experiences of fragile X syndrome.” Panel presenter. National Fragile X Foundation annual meeting; St. Louis, MO, July 2008.

**Michie M.** “Peace like a river?: On anthropologists and pentecostals in wartime.” American Anthropological Association annual meeting; Chicago, IL, November 2003.

**Michie M.** “White and wired: Whiteness and online identity.” American Anthropological Association annual meeting; Washington, DC, November 2001.

**Michie M.** “White Pride World Wide: Whiteness on the Internet and the resurgent politics of supremacy.” M.S. thesis equivalent, presented to the Department of Anthropology; UNC–Chapel Hill, March 2000 (Advisor: Marisol de la Cadena).

## ACADEMIC SERVICE

---

### National/International

- 2018-present Advisory Board Member, PEGASUS-2 – PErsonalized Genomics for prenatal Abnormalities Screening USING maternal blood: Towards First Tier Screening and Beyond (GenomeCanada)
- 2018-present ART (Assisted Reproductive Technology) Working Group, Center for Genetics and Society
- 2017-present Co-Chair, Ethics Special Interest Group, International Society for Prenatal Diagnosis
- 2015-present Advisory Board Member, “Goals and Practices for Next-Generation Prenatal Testing” (grant no. R01HG008805), Hastings Center (PI: J. Johnston)
- 2014-present Co-founder, Prenatal Information Research Consortium (prenatalinformation.org)
- 2018 Course co-chair, “International Context-sensitive Practice in Prenatal Counseling and Clinical Practice” (ISPD annual meeting pre-conference course)
- 2017 Invited participant, SMFM-ACOG-ACMG Workshop on Prenatal Genetic Testing, Las Vegas, NV
- 2014-2017 Book review editor, *American Journal of Bioethics*
- 2015 Co-organizer, “Non-Invasive Prenatal Testing in the Non-Western Context,” Brocher Foundation workshop, Geneva, Switzerland
- 2015 Invited participant, “Responsible Implementation of Expanded Non-Invasive Prenatal Genetic Screening,” Mayo Clinic Ethics Workshop, Rochester, MN
- 2015 Co-organizer, “Stakeholder Perspectives on Non-Invasive Prenatal Genetic Screening,” day-long satellite symposium at the annual meeting of the International Society for Prenatal Diagnosis, Washington, DC
- 2015 Guest editor (with M. Allyse), *AJOB Empirical Bioethics* Special Issue: Empirical Ethics and Perspectives in Non-Invasive Prenatal Genetic Testing (v. 6 n.1)

### Local/Institutional

- 2018-present Associate Director, Research Ethics Concentration, CWRU Bioethics MA program
- 2018-present Member, PhD program working group, CWRU Department of Bioethics
- 2017-present Member, Faculty metrics working group, CWRU Department of Bioethics
- 2018 Selection Committee, CWRU SOM Faculty Awards
- 2016-2017 Vice-Chair, UCSF Limited Submission Program Advisory Committee
- 2015-2017 Member, UC Bioethics Collaboratory (ucbioethics.org)
- 2015-2016 Member, UCSF Limited Submission Program Advisory Committee
- 2014-2017 Collaborator, UCSF Center for Transdisciplinary Research in Translational Genomics (CT2G.org)
- 2013/14 Member, Stanford Hospital & Clinics Ethics Committee
- 2013 Co-organizer, Stanford Hospital “Everyday Ethics” hospital ethics symposium

### Peer reviewing

Peer review record (2015-present): <https://publons.com/author/1183760/marsha-michie>

### **Peer reviewing** continued

I have reviewed article manuscripts for the following journals: *American Journal of Bioethics*; *AJOB Empirical Bioethics*; *AJMG Part B: Neuropsychiatric Genetics*; *BMC Pregnancy and Childbirth*; *Epilepsy & Behavior*; *Frontiers in Genetics*; *Genetics in Medicine*; *Human Gene Therapy*; *Intellectual and Developmental Disabilities*; *Journal of Genetic Counseling*; *Journal of General Internal Medicine*; *Journal of Medical Ethics*; *OBM Genetics*; *Pharmaceutical Medicine*; *PLOS ONE*; *Prenatal Diagnosis*; *Science, Technology & Human Values*; and *Systematic Reviews*.

### **MEMBERSHIPS**

---

2017-present International Society for Prenatal Diagnosis  
2012-present American Society for Bioethics and Humanities  
2012-present American Society of Human Genetics  
2007-present Society for the Scientific Study of Religion  
2001-present American Anthropological Association

### **ADDITIONAL SKILLS AND TRAINING**

---

**Diversity Training:** UCSF DIVA (Diversity in Action) Program (2015)

**Grant Writing:** CWRU Provost's Early Career Grant Academy (2019)

**Teaching:** UNC-Chapel Hill TIBBS Teaching Certificate (2011)

**Qualitative data analysis software:** ATLAS.ti, NVivo, Dedoose