

BIOGRAPHICAL SKETCH

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NAME: Modest, Anna Merport

eRA COMMONS USER NAME (credential, e.g., agency login): amodest

POSITION TITLE: Assistant Professor

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	END DATE MM/YYYY	FIELD OF STUDY
Brandeis University, Waltham, Massachusetts	BA	05/2008	Health: Science, Society, and Policy
Boston University School of Public Health, Boston, Massachusetts	MPH	01/2011	Epidemiology
Boston University School of Public Health, Boston, Massachusetts	PHD	01/2018	Epidemiology

A. Personal Statement

As a faculty epidemiologist in the Department of Obstetrics and Gynecology at Beth Israel Deaconess Medical Center and Instructor of Obstetrics, Gynecology, and Reproductive Biology at Harvard Medical School, I have a unique opportunity to apply my quantitative research skills to address meaningful clinical questions regarding the health of women. As principal investigator and co-investigator, I have contributed to research projects in a variety of areas, including infertility, complications of pregnancy, and preterm birth. I have been integral to the design, implementation, and analysis of projects in my institution and I have experience abstracting and working with electronic health and billing data at Beth Israel Deaconess Medical Center. In addition, I have an interest in appropriate statistical methods in reproductive epidemiology.

- Modest AM**, Johnson KM, Karumanchi SA, Resetkova N, Young BC, Fox MP, Wise LA, Hacker MR. Risk of ischemic placental disease is increased following in vitro fertilization with oocyte donation: a retrospective cohort study. *J Assist Reprod Genet.* 2019 Sep;36(9):1917–1926. PubMed PMID: [31359234](#); PubMed Central PMCID: [PMC6730979](#).
- Modest AM**, Wise LA, Fox MP, Weuve J, Penzias AS, Hacker MR. IVF success corrected for drop-out: use of inverse probability weighting. *Hum Reprod.* 2018 Dec 1;33(12):2295–2301. PubMed PMID: [30325421](#); PubMed Central PMCID: [PMC6238364](#).

B. Positions and Honors**Positions and Employment**

2008–2011	Clinical Research Coordinator, Dana-Farber Cancer Institute, Boston, MA
2011–2017	Clinical Research Assistant, Beth Israel Deaconess Medical Center, Boston, MA
2014–2016	Teaching Assistant, Boston University School of Public Health
2016–2018	Part-time Lecturer, Harvard Medical School, Boston, MA
2017–2018	Clinical Trials Specialist, Beth Israel Deaconess Medical Center, Boston, MA
2018–	Staff Scientist, Beth Israel Deaconess Medical Center, Boston, MA
2018–2020	Instructor, Harvard Medical School, Boston, MA
2020–	Assistant Professor, Harvard Medical School, Boston, MA

Other Experience and Professional Memberships

2013–	Member, Society for Epidemiologic Research
2014–	Member, Society for Perinatal and Pediatric Epidemiologic Research
2016–	Member, Maternal-Fetal Medicine Fellowship Selection Committee, BIDMC
2016–	Member, Obstetrics and Gynecology Resident Selection Committee, BIDMC
2017–	Member, Female Pelvic Medicine and Reconstructive Surgery Fellowship Selection Committee, Mount Auburn Hospital/BIDMC
2017–	Member, Minimally Invasive Gynecologic Surgery Fellowship Selection Committee, BIDMC
2009	Merit Scholarship, Boston University School of Public Health
2013	National Institutes of Health Training Grant: Boston University Reproductive, Perinatal and Pediatric Epidemiology, Boston University School of Public Health
2018	Trainee Award in Maternal-Fetal Medicine, New England Perinatal Society
2019	1st Prize Poster Presentation, Society for Epidemiologic Research

C. Contribution to Science

1. I have collaborate on multiple projects requiring the use of hospital billing data at our institution, including my dissertation work, which linked data from our institution with data from multiple other sources.
 - a. Johnson KM, Hacker MR, Thornton K, Young BC, **Modest AM**. Association between in vitro fertilization and ischemic placental disease by gestational age. *Fertil Steril*. 2020 Sep;114(3):579-586. PubMed PMID: [32709377](#); PubMed Central PMCID: [PMC7487041](#).
 - b. **Modest AM**, Toth TL, Johnson KM, Shinker SA. Placenta Accreta Spectrum: In Vitro Fertilization and Non-In Vitro Fertilization and Placenta Accreta Spectrum in a Massachusetts Cohort. *Am J Perinatol*. 2020 Jul 5;PubMed PMID: [32623707](#).
 - c. **Modest AM**, Johnson KM, Karumanchi SA, Resetkova N, Young BC, Fox MP, Wise LA, Hacker MR. Risk of ischemic placental disease is increased following in vitro fertilization with oocyte donation: a retrospective cohort study. *J Assist Reprod Genet*. 2019 Sep;36(9):1917-1926. PubMed PMID: [31359234](#); PubMed Central PMCID: [PMC6730979](#).
 - d. Johnson KM, Hacker MR, Resetkova N, O'Brien B, **Modest AM**. Risk of ischemic placental disease in fresh and frozen embryo transfer cycles. *Fertil Steril*. 2019 Apr;111(4):714-721. PubMed PMID: [30826115](#); PubMed Central PMCID: [PMC6443502](#).
2. I have been involved in several projects related to ultrasound screening for various adverse outcomes in pregnancy. I was responsible for the study design and/or data analysis for several studies that investigated the role of ultrasound screening in identifying women at high risk of preterm delivery and other complications. One of the studies led to a change in practice at our institution.
 - a. Haviland MJ, Murphy LA, **Modest AM**, Fox MP, Wise LA, Nillni YI, Sakkas D, Hacker MR. Comparison of pregnancy outcomes following preimplantation genetic testing for aneuploidy using a matched propensity score design. *Hum Reprod*. 2020 Oct 1;35(10):2356-2364. PubMed PMID: [32856053](#).
 - b. Dodge LE, Farland LV, Correia KFB, Missmer SA, Seidler EA, Wilkinson J, **Modest AM**, Hacker MR. Choice of statistical model in observational studies of ART. *Hum Reprod*. 2020 Jul 1;35(7):1499-1504. PubMed PMID: [32424400](#); PubMed Central PMCID: [PMC7368396](#).
 - c. Farland LV, Correia KFB, Dodge LE, **Modest AM**, Williams PL, Smith LH, Toth TL, Hacker MR, Missmer SA. The importance of mediation in reproductive health studies. *Hum Reprod*. 2020 Jun 1;35(6):1262-1266. PubMed PMID: [32424401](#).
 - d. **Modest AM**, Wise LA, Fox MP, Weuve J, Penzias AS, Hacker MR. IVF success corrected for drop-out: use of inverse probability weighting. *Hum Reprod*. 2018 Dec 1;33(12):2295-2301. PubMed PMID: [30325421](#); PubMed Central PMCID: [PMC6238364](#).

D. Additional Information: Research Support and/or Scholastic Performance

Ongoing Research Support

Charles Koch Foundation

Shanker (PI)

03/01/18-02/28/21

A comprehensive approach to the study of invasive placentation

The major goals of this study are to embark on invasive placentation biomarker discovery, develop innovative imaging tools to aid in the diagnosing of invasive placentation, and to Develop an animal model for invasive placentation.

Role: Co-Investigator

Completed Research Support

Eleanor and Miles Shore Fellowship

Modest, Anna Merport (PI)

07/01/19-06/30/20

Evaluating multiple mechanisms in the relationship between in vitro fertilization and ischemic placental disease

The major goals of this study are to addresses knowledge gaps regarding the mechanism underlying the association between in vitro fertilization and ischemic placental disease by quantify differences in the immunologic phenotype among donor IVF, autologous IVF, and non-IVF pregnancies and to determine the role of multiple gestations.

Role: PI

P30ES000002

Papatheorodou, Stefania (PI)

01/01/20-01/01/21

National Institute of Environmental Health Sciences

Air pollution and fetal growth

Role: Co-Investigator