Lauren Beatty

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Education

2023 (Expected)	PhD, Agricultural and Resource Economics, **University of Maryland**
2016	BA, Math and Economics, **Macalester College**

Research

"How Do Natural Gas Pipeline Networks Affect Emissions From Drilling and Flaring?" (Job Market Paper)

Most oil wells co-produce natural gas. Producers can choose to burn this valuable co-product on site (known as flaring) if the cost of connecting to the existing natural gas pipeline network is sufficiently high. While flaring is damaging to the climate, there exists surprisingly little research on the economics of flaring. I construct and estimate a dynamic model of producer drilling and flaring decisions which depend on the current state of the pipeline network and expectations over its evolution. My model also allows producers to internalize spillover effects for their neighbors – any pipeline they build will extend the network and weakly decrease their neighbors' future pipeline connection costs. Using my model estimates, I simulate pipeline development and flaring outcomes under counterfactual policies: a flaring tax, a flaring ban, and a gas subsidy. My counterfactual simulations show that flaring abatement costs are higher than previous studies but suggest that a flaring tax could substantially reduce flaring. A \$5/Mcf tax reduces flaring by 39%.

Fellowships and Awards

2021-2023	NBER Pre-Doctoral Fellowship in Energy Economics
2020	Bessie H. DeVault Award for Best Paper by a Third-Year Student
2018	Rhona Lantin Memorial Scholarship for Best Paper by a First-Year Student
2017-2022	University of Maryland Flagship Fellowship
2016	Phi Beta Kappa
2016	3M Scholar Award
2015	John M. Dozier Prize in Economics

Work Experience

Graduate Research Assistant for James Archsmith	Aug. 2022 - Present
Graduate Research Assistant for Louis Preonas	Aug. 2019 - Aug. 2021
Graduate Teaching Assistant for AREC 610 (Applied Microeconomics)	Jan. 2019-May 2019
Graduate Teaching Assistant for AREC 623 (Econometrics I)	Sep. 2018-Jan. 2019
Graduate Research Assistant for Anna Alberini	Jan. 2018-Sep. 2018
Graduate Research Assistant for Roberton Williams III	Sep. 2017-Dec. 2017
Abstract Algebra Preceptor	Jan. 2016 - Jun. 2016
Multivariable Calculus Preceptor	Sep. 2014 - Dec. 2014
Discrete Mathematics Preceptor	Sep. 2013 - Jun. 2014

References

Josh Linn:	`linn@umd.edu`
Rob Williams:	`roberton@umd.edu`
Louis Preonas:	`lpreonas@umd.edu`
James Archsmith:	`archsmit@umd.edu`

Skills

R, SQL, Git, Stata, LaTeX