

# Stanford

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## Laura Lyman

- Ph.D. Student in Computational and Mathematical Engineering, admitted Autumn 2015
- Hume Center Dissertation Boot Camp Monitor, Hume Center

### Bio

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#### BIO

Hello! I am a PhD candidate at the Institute for Computational and Mathematical Engineering (ICME). I am proud to be advised by Professor Gianluca Iaccarino.

Some of my research interests include stochastic Galerkin methods, uncertainty quantification, polynomial chaos, applied partial differential equations, and Monte Carlo methods — though often, the academic boundaries and specific titles will overlap. Prior to graduate school, I attended Reed College as a mathematics major and worked as a software developer in Portland, OR. In 2018, I was a recipient of the Stanford Centennial Teaching Award. I am also a Stanford EDGE Fellow and was awarded the Thomas V. Jones Fellowship Fund.

If you have questions about more current work, the best route is to contact me via email ([lymanla@stanford.edu](mailto:lymanla@stanford.edu)) directly. Thanks!

#### STANFORD ADVISORS

- Michael Saunders, Doctoral Dissertation Reader (AC)
- Margot Gerritsen, Doctoral Dissertation Reader (AC)
- Art Owen, Doctoral Dissertation Reader (AC)
- Gianluca Iaccarino, Doctoral Dissertation Advisor (AC)

### Teaching

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#### COURSES

##### 2021-22

- Advances in Computing with Uncertainties: CME 270 (Aut)

### Publications

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#### PUBLICATIONS

- **Second Order Moments of Multivariate Hermite Polynomials in Correlated Random Variables** *International Conference on Computational Science (ICCS)*  
Lyman, L., Iaccarino, G.  
2021: 698-712
- **Extending bluff-and-fix estimates for polynomial chaos expansions** *Journal of Computational Science*  
Lyman, L., Iaccarino, G.  
2021; 50: 101287

- **A Bluff-and-Fix Algorithm for Polynomial Chaos Methods** *International Conference on Computational Science (ICCS)*  
Lyman, L., Iaccarino, G.  
2020: 742-756
- **Robust Graph Ideals** *ANNALS OF COMBINATORICS*  
Booher, A., Brown, B. C., Duff, T., Lyman, L., Murayama, T., Nesky, A., Schaefer, K.  
2015; 19 (4): 641-660