After college, I wasn’t quite sure what to do with my mathematics degree. I had chosen mathematics as a major because I love problem solving and always found the subject challenging. Without a clue of how mathematics can be applied in the energy industry, I sent my resume off to a few recruiters in Houston and got several immediate responses. It turns out that math degrees are sought out in the energy industry for the role of Reservoir Engineering Technician. It’s a fancy title for “modeler and data analyst,” which my professors would have referred to as “Operations Research.”

I started my career as a Reservoir Engineering Technician at an engineering consultancy. I worked as part of a multidisciplinary team that modeled future oil and gas reserves, production, and profit. The team included geologists, geophysicists, reservoir engineers, and reservoir engineering technicians. It was my job to analyze the historical cost, price, and production data to determine input parameters for the models. I was also responsible for running the model, performing sensitivity analysis in conjunction with the reservoir engineer, and checking the model for errors and accuracy.

I then moved to an investment bank specializing in oil and gas transactions. Investment banks are sort of like the realtors of the oil and gas industry, helping companies to buy and sell oil and gas properties. In addition to modeling reserves and economics, it was my responsibility to locate synergies within the industry. For example, if Company ABC has one thousand gas wells in Texas and one oil well in...
California and Company XYZ has one thousand oil wells in California and one gas well in Texas, doesn’t it make sense to coordinate a trade? Worldwide, there are thousands of databases that one can mine and manipulate to find potential value.

When I was ready to slow down, I moved to an oil and gas company. Oil and gas companies are known for having great work/life balance. While at this company, I worked on the budget planning team, the exploration team, the production and operations team, and the business development team. It was exciting and thrilling to see how large teams of scientists work together to safely and carefully produce the energy America needs.

After having my son, I reflected for many months on the great opportunities the oil and gas industry had afforded me. Over the years my phone rang time and time again with recruiters throwing out larger and more outrageous salaries. I had the thought, “Could I make copies of myself?” Could I engage new mathematicians to come and learn under my guidance and set them up for a career in oil and gas? It took a lot of soul-searching, but in April 2010 I started my own firm for just this purpose, QED Energy Associates.

At QED Energy Associates, my team makes best-in-class Reservoir Engineering Technicians and places them at top-notch industry jobs. Recent math-minded graduates train with us for six weeks to learn the ins and outs of the oil and gas industry, then we are paid by our clients to gain access to our super candidates. I was named Young Entrepreneur of the Year in 2012 by the Houston West Chamber of Commerce. I am proud to have made it through the commodity price downturn of 2014-15 without having to lay off a single employee. I have helped over two hundred recent grads get started in the oil and gas industry. If you are interested in following a corporate path, please reach out to us for more information. We would love to have the opportunity to speak with you.
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<tr>
<td><strong>Elizabeth Pontius</strong></td>
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<td><strong>Kayli Schafer</strong></td>
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<td><strong>Alec Torigian</strong></td>
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<td>Teacher, Co-Founder of NYC Math Lab, NYC Department of Education</td>
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<td><strong>Adam Rich</strong></td>
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<td><strong>Paige Bartholomew</strong></td>
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<td><strong>Kathie Flood</strong></td>
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<td>Deputy Chief Analyst, US Air Force (retired)</td>
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<td>Amanda Plunkett</td>
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<tr>
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Kate Brady  MA Urban and Environmental Planning ........................... 25
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Sarah Brown  MA Mathematics .......................................................... 29
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Research and Development Computer Scientist, Sandia National Laboratories
Research and Development Manager, Sandia National Laboratories
Scientist, Space and Naval Warfare System Center Atlantic, US Navy
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<td>PhD Mathematics</td>
<td>Chief Technology Officer and Founder, VivaQuant</td>
</tr>
<tr>
<td>Lizette Ortega Dickey</td>
<td>MS Biostatistics</td>
<td>Biostatistician, Contract Research Organization</td>
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<td>Berton Earnshaw</td>
<td>PhD Mathematics</td>
<td>Director, Data Science Research, Recursion Pharmaceuticals</td>
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<td>Stephanie Fitchett</td>
<td>PhD Mathematics</td>
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<tr>
<td>Sommer Gentry</td>
<td>PhD Electrical Engineering and Computer Science</td>
<td>Mathematics Professor, US Naval Academy</td>
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<td>Boost Consultant, Epic Systems Corporation</td>
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<td>Erika Meza</td>
<td>MPH Environmental Health Sciences</td>
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<td>Christine Papai</td>
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<td>Deputy Country Director, Innovations for Poverty Action Ghana</td>
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<tr>
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Karoline Pershell *PhD Mathematics* .......................................... 165
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Chief, Mathematics Research Group, National Security Agency

Bonita Saunders *PhD Computational and Applied Mathematics* .......... 199
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Chris Wiggins *PhD Theoretical Physics* ....................................... 245
Associate Professor, Columbia University; Chief Data Scientist, The NY Times

Bryan Williams *PhD Mathematics* ............................................... 247
Scientist, Space and Naval Warfare System Center Atlantic, US Navy

**Sales and Marketing**

Lisa Byrne *MS Mathematics and Statistics* .................................. 31
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Erick Deras *BA Mathematics and Computer Science* ....................... 49
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Samantha Drost *BS Mathematics, BA Economics* .......................... 55
Senior Analyst, Business Intelligence and Analytics, Target Corporation

Jaquelyn Fernandez Rieke *BA Mathematics* .................................. 65
Founder, Nutty Steph’s; Land Steward, Onion River Campground

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Ali Shappy  *MBA* .......................................................................................... 207
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**Sports**

Ben Baumer  *PhD Mathematics* ................................................................. 11
Assistant Professor, Smith College; Statistical Analyst, NY Mets

Tim Chartier  *PhD Applied Mathematics* .................................................. 35
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Michael Dairyko  *PhD Applied Mathematics* ......................................... 43
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**Statistics and Biostatistics**

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Ben Baumer  *PhD Mathematics* ................................................................. 11
Assistant Professor, Smith College; Statistical Analyst, NY Mets

Robert M. Bell  *PhD Mathematical Statistics* ........................................ 17
Statistician (retired), RAND, AT&T, and Google, Inc.

Lizette Ortega Dickey  *MS Biostatistics* .................................................. 51
Biostatistician, Contract Research Organization

Stephanie Fitchett  *PhD Mathematics* ...................................................... 67
Statistician and Data Scientist, Transamerica Life Insurance Company

Rachel Insoft  *BA Mathematics* ................................................................. 93
Senior Analyst, Quantitative Economics and Statistics Group, Ernst & Young

Liz Uribe  *MS Biostatistics* ................................................................. 235
Biostatistician, University of Iowa

**Writing and the Arts**

Dana Mackenzie  *PhD Mathematics* ......................................................... 117
Freelance Writer

Alex McAdams  *PhD Applied Mathematics* ....................................... 121
Senior Software Engineer, Walt Disney Animation Studios
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<td>Gregory Rae</td>
<td>BS Computer Science and Mathematics</td>
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<td></td>
<td>Producer and General Manager, Martian Entertainment</td>
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<td>Julie Shapiro</td>
<td>BA Mathematics</td>
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<td>Enterprise Editor, NBC News Digital</td>
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<tr>
<td>Brian T. Bares</td>
<td>BS Mathematics</td>
<td>Founder and Chief Investment Officer, Bares Capital Management, Inc.</td>
</tr>
<tr>
<td>Paige Bartholomew</td>
<td>BS Mathematics</td>
<td>Consultant, Bain &amp; Company</td>
</tr>
<tr>
<td>Mimi Cukier</td>
<td>BA Mathematics and Philosophy</td>
<td>Mathematics Teacher, The Park School of Baltimore</td>
</tr>
<tr>
<td>Kathleen Daly</td>
<td>BA Mathematics</td>
<td>Staff Engineer, Booz Allen Hamilton</td>
</tr>
<tr>
<td>Erick Deras</td>
<td>BA Mathematics and Computer Science</td>
<td>Lead Software Development Engineer, The Rubicon Project</td>
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<td>BS Mathematics</td>
<td>Research Mathematician, US Army Corps of Engineers</td>
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<td>Samantha Drost</td>
<td>BS Mathematics, BA Economics</td>
<td>Senior Analyst, Business Intelligence and Analytics, Target Corporation</td>
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<td>Jaquelyn Fernandez Rieke</td>
<td>BA Mathematics</td>
<td>Founder, Nutty Steph’s; Land Steward, Onion River Campground</td>
</tr>
<tr>
<td>Harold Hausman</td>
<td>BA Mathematics</td>
<td>Owner and Senior Software Engineer, TechAscent</td>
</tr>
<tr>
<td>Ebony Hitch</td>
<td>BS Mathematics</td>
<td>Mathematics Teacher, Wicomico High School</td>
</tr>
<tr>
<td>Kelly Hobson</td>
<td>BA Mathematics</td>
<td>Software Tester, Internet of Things Solution, SAS Institute</td>
</tr>
<tr>
<td>Rachel Insoft</td>
<td>BA Mathematics</td>
<td>Senior Analyst, Quantitative Economics and Statistics Group, Ernst &amp; Young</td>
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<td>BA Mathematics and Neuroscience</td>
<td>Boost Consultant, Epic Systems Corporation</td>
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<tr>
<td>Marina Johnson</td>
<td>BS Mathematics</td>
<td>Analyst, Morgan Stanley</td>
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<td>Erin Jones</td>
<td>BA Mathematics</td>
<td>Go-To-Market and Sales Strategy Manager, RSA, Dell Technologies</td>
</tr>
<tr>
<td>Barbara Jordan</td>
<td>BS Mathematics</td>
<td>Assistant Vice President, Credit Risk Management, GM Financial</td>
</tr>
<tr>
<td>Carissa Mendoza</td>
<td>BS Mathematics</td>
<td>Senior Inside Sales Representative, Trace3</td>
</tr>
<tr>
<td>Christopher Minck</td>
<td>BA Mathematics</td>
<td>Fixed Income Trader, BlackRock</td>
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Grace Nabholz *BS Mathematics* .................................................145
  Research Mathematician, US Army Corps of Engineers

Gregory Rae *BS Computer Science and Mathematics* ......................181
  Producer and General Manager, Martian Entertainment

Rachel Ramirez *BA Mathematics with Actuarial Science Concentration* 183
  Actuarial Analyst, National Life Group

Adam Rich *BS Mathematics* ......................................................189
  Actuary, Head of Specialty Lines Analytics, Beazley Group PLC

Christina Roberts *BA Mathematics and Spanish* .............................191
  Assistant VP, Senior Catastrophe Modeling Analyst, Validus Reinsurance

Shannon Rogers *BS Mathematics* ................................................193
  Curriculum Developer, Art of Problem Solving

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  Enterprise Strategy Manager, OneAmerica

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  Vice President, Risk Solutions, Gravie

Courtney Stephens *BS Mathematics* ...........................................219
  CEO, QED Energy Associates

Robert Troy *BS Mathematics* ...................................................229
  Pilot, US Air Force

**Master’s Degree**

Charlotte Abrams *MPH Biostatistics* ............................................1
  Graduate Student, Columbia University

Noelle Balandi *MS Financial Analysis* ..........................................5
  Finance Specialist, Multnomah County, Oregon

Stacy Beaudoin *MST Mathematics* .............................................13
  Math Teacher, St. Paul’s School

Ebonii Bell *MA Computational and Applied Mathematics* ..................15
  Senior Supply Chain Analyst, Abbott

Nicole Bertram *MS Cellular and Molecular Biology* .........................21
  Software Developer, Epic Systems Corporation

Kate Brady *MA Urban and Environmental Planning* ..........................25
  Senior Bicycle Planner, City of Colorado Springs

Sarah Brown *MA Mathematics* ...................................................29
  Senior Scientist, NATO Communications and Information Agency

Lisa Byrne *MS Mathematics and Statistics* ..................................31
  Data Scientist, WeddingWire

Lizette Ortega Dickey *MS Biostatistics* .......................................51
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Kathie Flood *MA Journalism and Mass Communications* .....................69
  CEO, Cascade Game Foundry SPC
Tamara Fuenzalida  *MS Mathematics*  .................................................. 71
   Instructor of Mathematics, Tarrant County College Northeast

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   Director of Strategy, Fixed Income Analytics, FactSet

CJ Jaynes  *MS Mathematics, MBA*  ............................................ 97
   Rear Admiral (ret), US Navy; Executive Technical Advisor, Raytheon Company

Chad Magers  *MS Mathematics*  .............................................. 119
   Scientist, Naval Surface Warfare Center

Erika Meza  *MPH Environmental Health Sciences*  .......................... 127
   Project Associate, The RAND Corporation

David Moore  *MS Environmental Analysis*  .................................... 133
   Environmental Products Analyst, Element Markets

Walter Morales  *MS Petroleum Engineering*  .................................. 137
   Technologist, Chevron Corporation

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   Software Development Engineer, Amazon

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   Research and Development Computer Scientist, Sandia National Laboratories

Liz Uribe  *MS Biostatistics*  ..................................................... 235
   Biostatistician, University of Iowa

Kim Van Duzer  *MS Elementary Education*  .................................... 237
   Teacher, Co-Founder of NYC Math Lab, NYC Department of Education

Andrea Walker  *MS Mathematics*  ............................................. 239
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   Math Teacher, Clinton Hill Middle School

Donald C. Williams  *MA Computational and Applied Mathematics*  ...... 249
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   Associate Director, NERA Economic Consulting
Ben Baumer PhD Mathematics .................................................. 11
   Assistant Professor, Smith College; Statistical Analyst, NY Mets
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