



Fugue Science Group

Industry Academic Interaction

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My Career

Keys To Success In Industry

- Strong Math foundation
 - Ability to solve tough problems
- Strong Computational skills
 - Ability to test theoretical hypothesis and build practical solutions
- Strong understanding of other scientific disciplines
 - Ability to interact with other sciences and quickly understand their needs



- **BA**
- Numerical Analysis
- Linear Algebra
- ODE/PDE



- **MS**
- Supercomputing
- Linear Algebra
- Numerical Analysis
- Modeling
- Optimization
- ODE/PDE



- **PhD**
- Computational Mathematics
- EE
- Neuroscience
- Microbiology
- CS



- Computational Genetics
- Bioinformatics



- Bioinformatics
- Biosensor design
- Forensics
- Genetics
- Acoustics
- Communication
- GPGPU
- ISR/UAV
- Image Processing
- Signal Processing



- Team's current & past customers:



1990s

2000s

2010s



Typical Workday

- **Devise creative solutions to society's needs**
- **Create proof-of-principal results/prototypes**
- **Present ideas to customers, write proposals**
- **Execute and Manage programs**
- **Customer feedback**
 - **Presentations**
 - **Written reports**
 - **Deliver products**
- **Training and support**

Keys To Success In Industry

- **Teamwork**
 - **Followership, Leadership, Collaboration**
- **Verbal Skills**
 - **Presentations, Customer/Client Interaction**
- **Writing Skills**
 - **WPs, Proposals, Performance Reviews**
- **Flexibility**
 - **Adapt to change: customer requirements, new projects, new people, willingness to learn**
- **Professionalism**



Keys To Success In Industry

- **Strong Mathematical foundation**
 - Ability to solve tough problems
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 - Ability to test theoretical hypothesis and build practical solutions
- **Strong understanding of other scientific disciplines**
 - Ability to interact with other sciences and quickly understand their needs
- **Teamwork**
 - *Followership, Leadership, Collaboration*
- **Verbal Skills**
 - *Presentations, Customer/Client Interaction*
- **Writing Skills**
 - *Whitepapers, Proposals, Performance Reviews*
- **Flexibility**
 - *Adapt to change: customer requirements, new projects, new people, willingness to learn*
- **Professionalism**

Reach out to all scientific disciplines and lend your expertise