

Mind the Gap: An incomplete picture of statistics, statisticians, & statistics education

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June 25, 2023
Maleny, Australia

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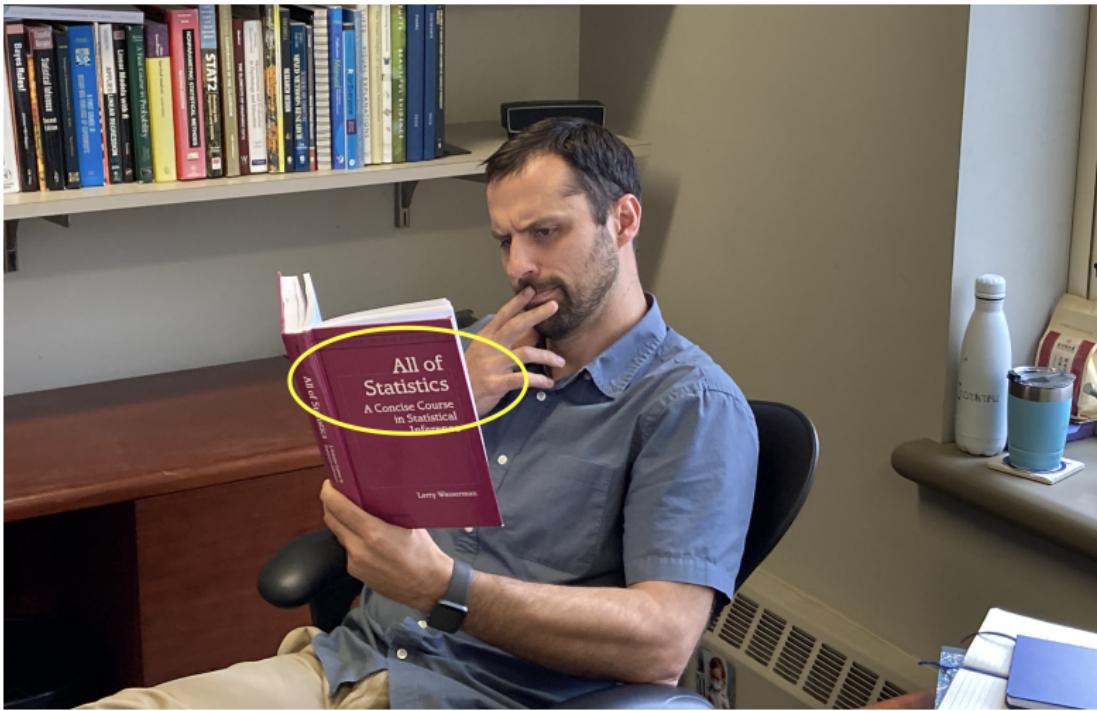


Figure 1: Getting ready to “Provide the perspective of the discipline...” as chartered by the SRTL announcement.

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Who is this guy anyway?

The birth of an academic



Figure 2: (Academic) offspring of Joan Garfield & Bob delMas

- if any of you know me, it's probably thanks to my parents PhD advisors Joan Garfield & Bob delMas

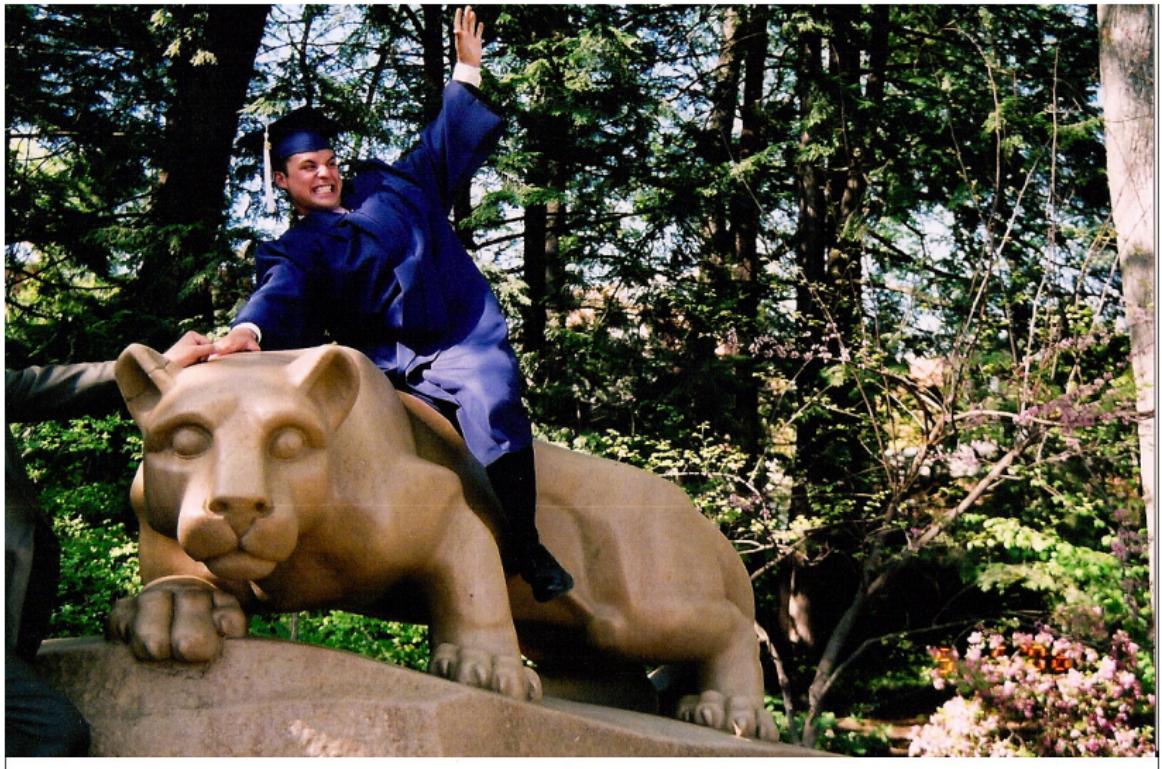
The birth of an academic



Figure 2: (Academic) offspring of Joan Garfield & Bob delMas

- if any of you know me, it's probably thanks to my parents PhD advisors Joan Garfield & Bob delMas
- there's plenty more to my upbringing prior to Statistics Education, including lots that has almost nothing to do with academics. . .

Rebellious youth



Mum & Dad



Figure 3: Marian & Don Beckman

Social outing with a friend



Early education. . .



Getting more serious. . .

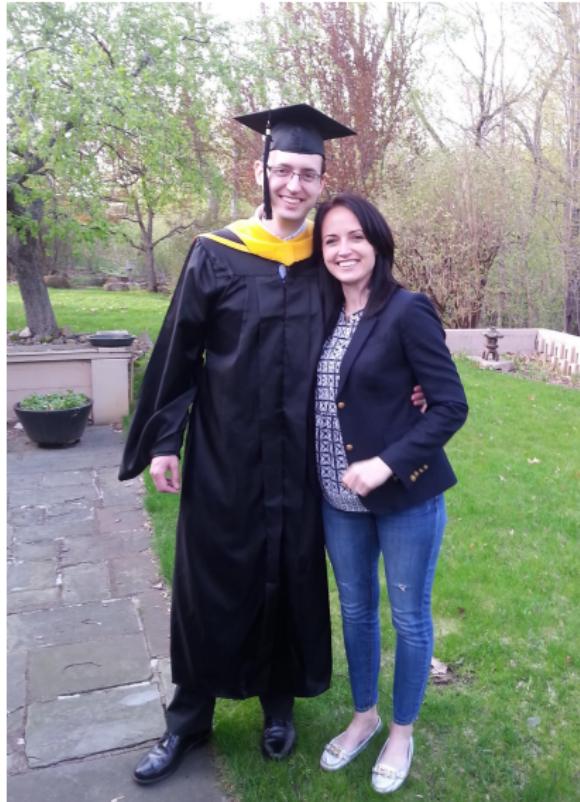


Figure 4: earned MS in Statistics & married Sarah.

Settling in as a career statistician. . .

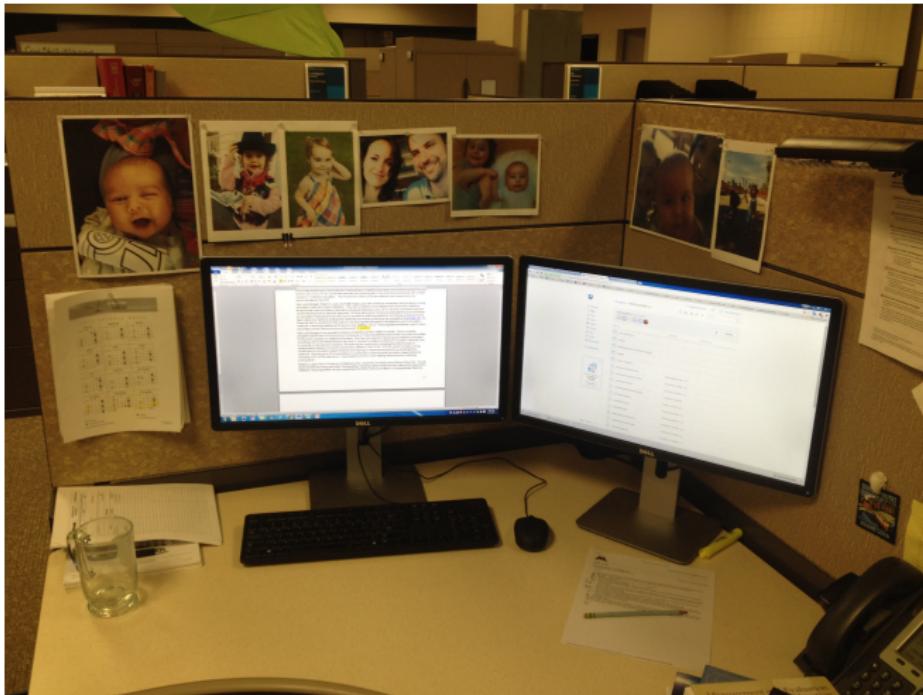


Figure 5: Working late. . .

Ecolab, Inc.



Figure 6: Image credit: Patrick Kennedy, Star Tribune¹

- Started out at Ecolab working in R&D (+ Eng)
- Interned with a small team of staff statistical consultants
- Lots of design & analysis of experiments
- Assist with teaching in-house statistics courses for Engineers, Mgmt, scientists, etc (Intro, DOE, MSA, SPC, RDSA)

¹Kennedy, P., (6 Feb 2023). Ecolab now selling products at Home Depot — the first time available at retail stores. Star Tribune. URL: <https://www.startribune.com/ecolab-now-selling-products-at-home-depot-the->

8 yrs in Medical Technology

- Medtronic, PLC
- Hired b/c MDT made a commitment to government regulators!
- Typical data: verbatim complaints from call center, manufacturing data, clinical study data, company sales & registration data, engineering diagnostics from in-house returned product analysis, lots more!
- Promoted to Senior Statistician; supported broad projects across organization including Quality, Manufacturing, R&D, Marketing, HR/Personnel
- Regularly tasked with explaining MDT statistical methodology and procedures to government regulators (e.g., post-market surveillance)
- Develop & teach in-house statistics courses (again!)

Nonin Medical. Inc



Figure 7: image credit: Michael Heisson²

- Senior Biostatistician (“only” statistician...)
- Internal & external collaborations (e.g., anesthesiology research, clinical trial design, etc)

²Lee, E., (4 Oct 2022). The Best Pulse Oximeter for Home Use. New York Times Wirecutter. URL: <https://www.nytimes.com/wirecutter/reviews/best-pulse-oximeter-for-home-use/>

- item 1
- item 2

Box

- ① item
- ② item

- Cite stuff people have already done³
- Link to URL's: <https://en.wikipedia.org/wiki/URL>

³American Statistical Association Undergraduate Guidelines Workgroup (2014). *Curriculum guidelines for undergraduate programs in statistical science.*

Here's a table

Col1	Col2
1	One
2	Two
3	Three
4	Four
5	Five
6	Six

Acknowledgments

- So many to thank

References

- ① American Statistical Association Undergraduate Guidelines Workgroup (2014). 2014 Curriculum guidelines for undergraduate programs in statistical science. Alexandria, VA: American Statistical Association.
<http://www.amstat.org/education/curriculumguidelines.cfm>

Q & A

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