My experience: from academia to the actuarial profession

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Outline

- My career path how I got here
- What do actuaries do?
- Mercer the company I work for
- Resources

My career path

Academia:

- Undergraduate degree in physics
 University of Parma, Italy, 1993-1999
- PhD in physics
 Louisiana State University, USA, 1999-2003
- Postdoc in numerical relativity
 University of Southampton, England, 2003-2005
- Temporary lecturer, School of Mathematics
 University of Southampton, England, 2005-2006

My career path

- Actuarial profession:
 - Trainee actuary at Mercer
 Glasgow, Scotland, since Sep 2006

Why change career?

- Typical career in academia:
 - PhD (3-6 years), postdoc (2-4 x 2 years),
 lecturer/professor (with a bit of luck!)
 - Very long career path (first permanent position might be at age 35 or later)
 - Career peaks very late (it can take 15-20 years from the first permanent position to become a professor in the UK)

Why change career?

- Is the academic career worth it?
 - Main advantage:
 - you might end up doing what you love
 - Disadvantages:
 - lack of stability until later in life
 - little or no choice in location
 - likelihood of success may be limited
 - opportunity cost

What do actuaries do?

- Evaluating likelihood and financial impact of future events (assess risk and estimate cost of that risk).
 - Insurance (e.g. design and pricing of policies, calculation of reserves)
 - Pensions (e.g. level of pension contributions required to produce a certain retirement income)
- Skills: mathematics, economics, finance, probability and statistics, and business awareness.
- Ability to communicate complex concepts. Also involved in financial reporting.

How do you become an actuary?

- You must pass a series of exams set by professional body (Institute/Faculty of Actuaries in UK, Society of Actuaries in the US) and gain work experience (at least 3 years)
 - approx 5000 hours of study, pass rate below 50%
 - support from employer, pay rises/promotions for exam passes
 - high demand, well paid, rated one of the best jobs in America

MERCER



- Consultancy firm, part of Marsh & McLennan Companies
 - global leader for trusted HR and related financial advice, products and services
 - one of the largest of its kind (13,000 employees in 40 countries) advising substantial portion of Global Fortune 500 companies
- My area of work: retirement practice
 - help clients design and manage retirement benefits
 - offer advice to companies and trustees
 - every day job: calculation of value of benefits, calculation of accounting figures, answering member technical queries, keeping up-to-date with legislation, etc.
- Major challenge: work/life/study balance

Conclusion: some advice

- Think about what is really important to you, taking probability of success into account.
- Be in charge of your own future. Find out about opportunities available to you.

Resources

- www.soa.org
- www.dwsimpson.com/salary.html
- www.beanactuary.com/about/whatis.cfm
- www.beanactuary.com/about/best_job.cfm
- www.prospects.ac.uk/downloads/occprofiles/profile_ pdfs/I1_Actuary,_consultancy.pdf
- www.mercer.com