

Be a Social Science Detective!



- > I have a theory
- > I see clues
- Could something <u>other than</u> my theory explain those clues?

How?



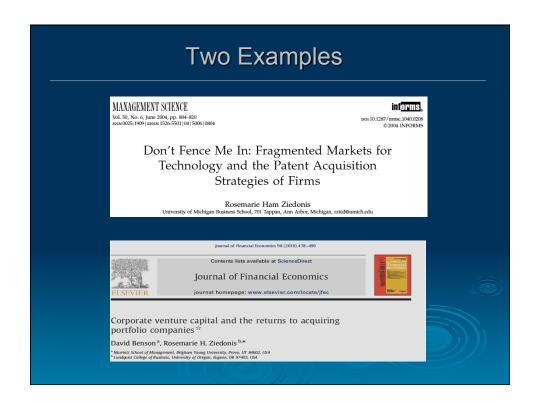
- Find a natural experiment, valid instrument, etc…
- Over-assert
 - My theory is A, the clues confirm it!
 - Add a quiet "P.S." that the clues are consistent with Theories B and C as well
 - Hang your hat on flimsy evidence (2SLS w/o exclusion; IV with no logic)
 - Refuse the job
 - Triangulate!

Triangulation



"In the social sciences, triangulation is often used to indicate use of more than two methods in a study with a view to double (or triple) checking the results."

Also known as "cross-examination" --wikipedia

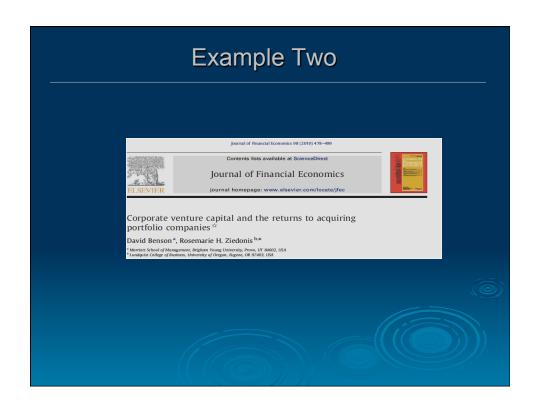


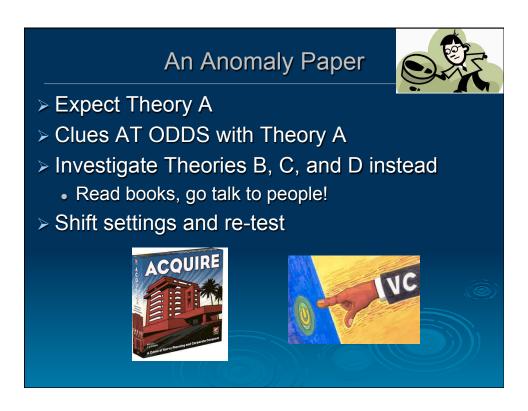
Example 1: "Don't Fence Me In"

- The "Crime": a surprising surge in patenting by IT companies (Y)
- Theory: a strategic response to market frictions and concerns of hold-up
 - X (external rights♠) → W (friction♠) → Y(Self-insure♠♠)
- > Clues: X, Y but not W
- Alt Theory: X and Y are caused by Z (technological opp), not W

Approach

- ➤ Dig deeper!
 - If my theory is correct, what else should I find?
 - Effects = amplified post "regime shift"
 - Effects for Type A firms > than for Type B firms
- Revisit the phenomenon
 - Did a technological shift coincide with the Regime Shift? Or disproportionately affect Type A v. B?
 - Read books & talk with people!
- Find an indirect proxy (trends in same sector in countries w/o "regime shift")





Summary



- > It's cool to be a social science detective!
- > To be a good one, you must...
 - Do some digging
 - Be creative
 - Be honest
 - Sharpen your tools...and invest in new ones

Some References

Less Obvious

- Deaton A. 2009. Instruments, Randomization, and Learning about Development. Jl of Economic Literature, 48(2): 424-455.
- 2. Diamond J, Robinson JA, ed. 2010 Natural Experiments of History. Harvard Univ Press.

More Obvious

- 3. Angrist JD, Pischke JS. 2008. <u>Mostly Harmless Econometrics</u>. Princeton Univ Press
- Hamilton B, Nickerson J 2003. Correcting for Endogeneity in Strategic Management Research. Strategic Organization, 1, 51-78.
- Shaver JM. 1998. Accounting for Endogeneity When Assessing Strategy Performance: Does Entry Mode Choice Affect FDI Survival? Management Science. 44(4): 571-585.
- Bascle G. 2008. Controlling for Endogeneity with Instrumental Variables in Strategic Management Research. Strategic Organization 6(3): 285-327.
- Reeb D, Sakakibara M, Mahmood IP. 2012. From the Editors: Endogeneity in International Business Research, Jl International Business Studies 43: 211-218.

My Examples

- Ziedonis RH. 2004. Don't Fence Me In: Fragmented Markets for Technology and the Patent Acquisition Strategies of Firms. Management Science 50(6): 804-820.
- Benson D, Ziedonis RH 2010. Corporate Venture Capital and the Returns to Acquiring Portfolio Companies. Jl of Financial Economics, 98: 478-499.