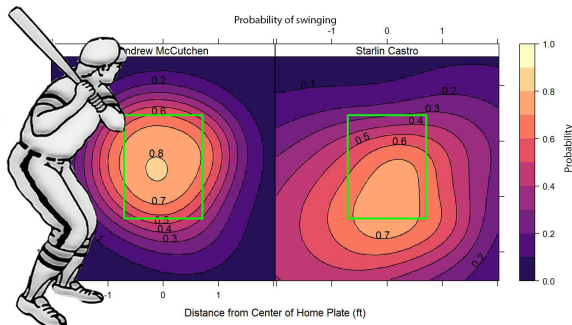


MSCS MESS

Department of Mathematics, Statistics, and Computer Science
St. Olaf College, Northfield, MN 55057
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Next Monday's Colloquium

Title: A good eye: The effect of plate discipline on batter outcomes
Speaker: Laura Boehm Vock
Time: 3:30 PM
Date: November 5
Place: RNS 310



About the talk: Offensive performance in baseball depends on a number of correlated factors: the pitches the batter faces, the batter's choice to swing, and the batter's hitting ability. Can we separately identify the effect of choosing to swing (or not) on a player's batting average, on-base and slugging percentage? How does a batter's plate discipline compare to "optimal" decision making? To answer this question, I develop a model that considers spatial variables (such as pitch location) and multiple batter treatment factors. You will see familiar tools: logistic regression, conditional probability, and bootstrapping combined in a powerful new way!

About the Speaker: Laura Boehm Vock is an Assistant Professor in Math, Computer Science, and Statistics at Gustavus Adolphus College. Professor Vock graduated from St. Olaf in 2008 with majors in Mathematics and Art History. She then received a master's and PhD in Statistics from North Carolina State University. Her research

interests include spatial statistics, environmental statistics, and public health and epidemiology.

Apply to be an SI Leader!

The Center for Advising and Academic Support is seeking qualified students to lead Supplemental Instruction (SI) for the Spring semester. The positions primarily entail attending class (which you get paid to do!) and planning & facilitating weekly sessions. In addition to being paid, SI Leaders are able to further review and master course content and get useful teaching experience, both of which are particularly valuable for those interested in graduate school or internships.

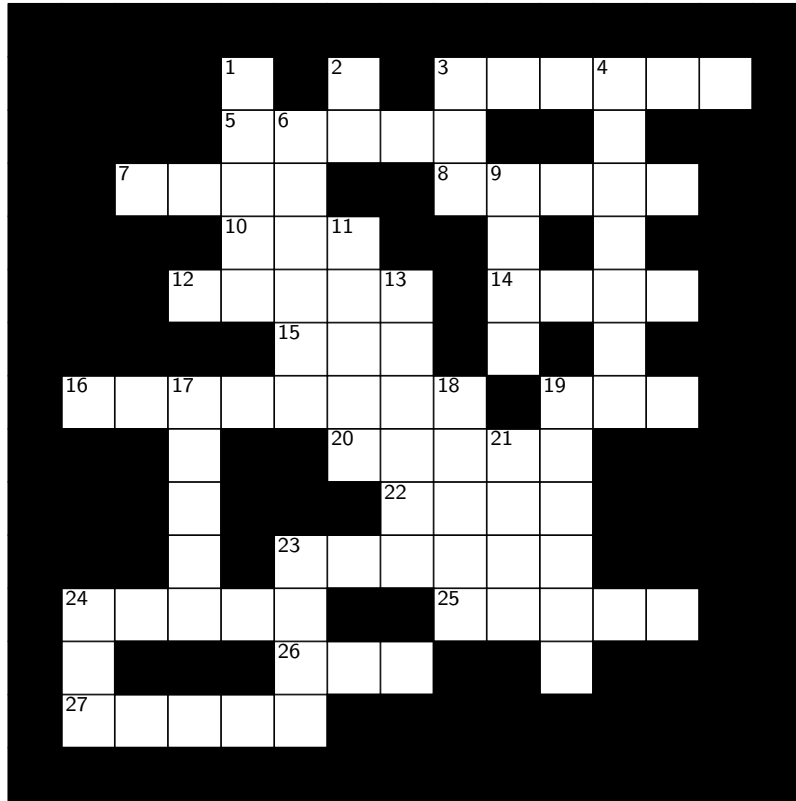
Statistics Grad School Panel

Thinking about continuing your statistics education at the graduate level? Curious about what you could do with an advanced degree in Statistics? Come to the Statistics Graduate School Panel on Monday, Nov. 5 from 7:00-8:00 PM in the CIR room (RNS 207)! Panelists include individuals in MS and PhD programs in Biostatistics and Statistics. Everyone is welcome!

Help Math Club Raise Money!

Enjoy eating pizza, getting good service, or supporting your math-minded friends? Math Club is delivering pizza for the Pause on Saturday, so you can do all three this weekend! Money we earn will help us fund events like the recent game night. Pizza is also a great complement to crossword-solving, in case you happen to come across a good puzzle this weekend.

An MSCS Mess Crossword Puzzle for Fall



Across

- 3 Co, sounds like an old programming language
- 5 Unix time
- 7 \emptyset
- 8 Given the homomorphism $\alpha : G \rightarrow H$, the subgroup $\{\alpha(g) | g \in G\}$
- 10 Component of MATH 119, STAT 110, CSCI 252
- 12 An endofunctor together with two natural transformations.
- 14 8, 27, or 64, for example
- 15 Caution: Uncertainty Ahead
- 16 General propositions not self-evident but proved by chains of reasoning
- 19 2π
- 20 May follow linear, topological, or projective
- 22 A function f where $f(x) = f(-x)$ for all x
- 23 Statisticians may make these
- 24 Computers do this to read strings
- 26 Something used to interact with databases.

27 $\left\{ \begin{bmatrix} 1 \\ 0 \end{bmatrix}, \begin{bmatrix} 0 \\ 1 \end{bmatrix} \right\}$, to \mathbb{R}^2

Down

- 1 Precedes the world
- 2 The boring hypothesis
- 3 Square it for a distribution
- 4 Linear and Abstract
- 6 Relating to a flat, two-dimensional surface
- 9 Your department
- 11 Unary, binary, ternary
- 13 Harmonic Oscillators may be over, critically, or under
- 17 Mathematician who proved the Seven Bridges of Königsberg problem has no solution
- 18 Something a prudent student does often
- 19 Analogous to but more general than a vector or scalar, represented by an array
- 21 You might study one in MATH 236 or STAT 284
- 23 Most popular campus news source, probably
- 24 $\pi\pi\pi\pi\pi$

Please print me out!

To submit an article, event, or anything else for publication in the mess, email jadkow1@stolaf.edu; to receive the Mess digitally each Friday, email habero1@stolaf.edu; visit <http://wp.stolaf.edu/mscs/mcs-mess/> for a digital archive of previous MSCS Mess issues.

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