

## Jesse A. Blocher

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CONTACT INFORMATION	Finance Area, Kenan-Flagler Business School University of North Carolina - Chapel Hill Campus Box 3490 McColl Building Chapel Hill, NC 27599-3490 USA	<i>Voice:</i> (919) 257-0388 <i>Fax:</i> (919) 962-2068 <i>E-mail:</i> jesse_blocher@unc.edu <i>Web:</i> <a href="http://www.unc.edu/~jabloche">www.unc.edu/~jabloche</a>
CITIZENSHIP	USA	
RESEARCH INTERESTS	Financial Intermediation, Banks, Hedge Funds and Mutual Funds, Short Selling, Risk Management, Derivatives, Hedging, Structured Finance, Complex Networks	
EDUCATION	<b>University of North Carolina - Chapel Hill</b> , Chapel Hill, NC USA  Ph.D., Business Administration - Concentration in Finance (expected graduation date: June 2012) <ul style="list-style-type: none"><li>• Thesis Topic: TBD</li><li>• Advisor: Professor Jennifer Conrad</li></ul> <b>Massachusetts Institute of Technology</b> , Cambridge, MA USA  M.S., Chemical Engineering Practice, Sept 1998 <ul style="list-style-type: none"><li>• Thesis had three parts working with industrial partners:<ol style="list-style-type: none"><li>1. Koch Industries, Corpus Christie, TX, USA: Hydrogen Conservation Analysis</li><li>2. Mitsubishi Chemical, Kurashiki, Okayama, Japan: Fluidized Bed Reactor Analysis and Simulation</li><li>3. Mitsubishi Chemical, Kurashiki, Okayama, Japan: Reaction Waste Reduction and Optimization</li></ol></li><li>• Advisor: Professor T. Alan Hatton</li></ul> <b>Virginia Polytechnic Institute and State University (Virginia Tech)</b> , Blacksburg, VA USA  B.S., Chemical Engineering, May 1997 <ul style="list-style-type: none"><li>• Undergraduate Research Topic: Developed Visual Basic software for Water Pinch technology provided in <i>Industrial Water Reuse and Wastewater Minimization</i> by Y.A. Liu and J. Mann.</li><li>• Advisor: Professor Y. A. Liu</li></ul>	
AWARDS	<b>Virginia Tech</b> <ul style="list-style-type: none"><li>• Commonwealth Scholar, 1997</li></ul> <b>Massachusetts Institute of Technology</b> <ul style="list-style-type: none"><li>• Keith and Helen Rumbel Fellow Scholarship, 1998</li></ul>	
ACADEMIC EXPERIENCE	<b>University of North Carolina</b> , Chapel Hill, NC USA  <i>Research Assistant - Jennifer Conrad</i> <ul style="list-style-type: none"><li>• Developed Regime Switching model to examine emerging market interlocks</li><li>• Wrote Perl program to automatically retrieve Mergers &amp; Acquisitions data from online website</li></ul>	<b>August 2007 to present</b>

**Massachusetts Institute of Technology**, Cambridge, MA USA

*Teaching Assistant - T. Alan Hatton*

**Spring Semester 1998**

- Prepared problems and ran twice weekly recitation for Chemical Engineering Thermodynamics class
- Graded all homework and exams

WORKING PAPERS Jesse Blocher, Joseph Engelberg and Adam V. Reed, “The Long Short Wars: Evidence of Incentive Driven Short Selling by Hedge Funds”

Jesse Blocher and David Dicks, “The Instability of Agency Problems - An Evolutionary Approach”

PROFESSIONAL EXPERIENCE **TIAA-CREF**, Charlotte, NC USA

*Advice Development manager*

**March 2005 to July 2007**

- Supervised a team of up to 16 developers building and maintaining multiple automated financial advice delivery platforms
- Responsible for project budgeting, estimation and delivery in coordination with individual project managers
- Responsible for annual hardware budget of \$1M
- Full hiring, firing, and performance review responsibility

**Charlotte-Mecklenberg Schools**, Charlotte, North Carolina USA

*Math Teacher*

**August 2003 to December 2004**

- Taught AP Calculus BC, Algebra II, and Geometry
- Received top rating by principal based on classroom observation

**Accenture**, Charlotte, NC USA

*Consultant*

**Nov 1998 to July 2003**

- Led small teams and performed development and architectural work on J2EE project implementations at DuPont in Wilmington, DE, USA and Bank of America in Charlotte, NC USA
- Developed business cases and strategic implementation plans for large software projects (J2EE and SAP) for clients such as DuPont (Wilmington, DE USA), Glaxo-Wellcome (London, UK), International Paper (Memphis, TN USA and Atlanta, GA USA) and Degussa-Huls (Frankfurt, Germany)

TECHNICAL SKILLS Various programming skills:

- **MATLAB** experience: Linear Algebra, Econometrics Toolbox, Optimization Toolbox, Genetic Algorithm simulations adapted from GA Optimization routines, parallel processing
- **SAS** experience: UNIX and Windows environments, macro language, IML, most of the STAT package
- Programming: Java, Perl, UNIX shell scripting, SQL
- Applications:  $\text{T}_{\text{E}}\text{X}$ ,  $\text{L}_{\text{A}}\text{T}_{\text{E}}\text{X}$ ,  $\text{BIB}_{\text{T}}\text{E}_{\text{X}}$ , Microsoft Office, and other common productivity packages for Windows and Mac OS X
- Operating Systems: Microsoft Windows XP/2000, Apple OS X, Linux, other UNIX variants