ANATOLIY BELAYGOROD, Ph.D.
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ACADEMIC EDUCATION

2000-2006 **JOHN M. OLIN SCHOOL OF BUSINESS** **St. Louis, MO**
WASHINGTON UNIVERSITY
Doctor of Philosophy in Business Administration, *May 2006*
(specializing in applied Financial Econometrics using Bayesian MCMC methods)

- Dissertation "Essays on Finance and Macro modeling" defended in March 2006
- Advisor and Dissertation Committee Chair Professor Siddhartha Chib
- "Joint Estimation of Affine Jump-Diffusion continuous time model conditional on both: time-series of underlying and panel of options prices" (work in progress)
- Estimating Dynamic Stochastic General Equilibrium models (earlier version)
- "Yield Curve Estimation and Model Comparison in Discrete Time" (work in progress)
- Assist in development of a comprehensive Bayesian software package
- Teaching Assistant of Options Pricing, Risk Management, Business Statistics both in undergraduate and MBA classes
- Washington University Doctoral Fellowship and Research/Teaching Assistantship
- Beta Gamma Sigma Honor Society

2000-2002 **JOHN M. OLIN SCHOOL OF BUSINESS** **St. Louis, MO**
WASHINGTON UNIVERSITY
Master of Science in Business Administration *(in Finance)*, December 2002

2000-2001 **WASHINGTON UNIVERSITY MATH DEPARTMENT** **St. Louis, MO**
Master of Arts in Statistics *with thesis*, December 2001

- "Theoretical vs. Market Values of Public Companies."

1998-2000 **JOHN M. OLIN SCHOOL OF BUSINESS** **St. Louis, MO**
WASHINGTON UNIVERSITY
Bachelor of Science in Business Administration *with honors*, May 2000
Double major in finance and actuarial math (probability and statistics)

- Recipient of Honors Program Faculty Invitation for outstanding undergraduate students
- Golden Key National Honor Society and Dean's List

ACADEMIC RESEARCH PAPERS

- "Bayesian Modeling of Shock Lapse Rates Provides New Evidence for Emergency Fund Hypothesis," *North American Actuarial Journal*, Routledge, vol. 18, issue 4, 2014
- "Practical Specification of Affine Jump-Diffusion Stochastic Volatility Models," working paper
- "Improved Jump Specification in a Joint in AJD Model of S&P and VIX," working paper
- "Indeterminacy, change point and the price puzzle in an estimated DSGE model," *Journal of Economic Dynamics & Control*, *Elsevier vol. 33 (2009) p. 624-648*
- "Discrete Monetary Policy Changes and Changing Inflation Target in estimated DSGE model," *FRB of St. Louis Review*, November/December 2005 Vol. 87, No. 6

EXPERIENCE

June 2006- present

REINSURANCE GROUP OF AMERICA, INC. (RGA) — **Chesterfield, MO**

Vice President Quantitative Risk, Financial Markets

- Risk management, including dynamic hedging of EIA and VA blocks
- Dynamic hedging multiple Greeks (Delta, Rho, Gamma, Vega, Vanna, etc.)
- Model building for fixed income (swaps, treasuries, credit spreads, etc.) and equity markets
- Pricing exotic derivatives via semi-closed form and Monte-Carlo
- Producing interest rate scenarios for cash flow testing and use by pricing actuaries
- Working with Valuations department on Fair Value of liabilities
- Manage a team of associates with advanced graduate degrees
- Provide company-wide consulting on capital markets related issues

May 2010- Present

WASHU OLIN BUSINESS SCHOOL FINANCE DEPARTMENT (OLIN) — **St. Louis, MO**

Adjunct Professor of Finance

- Teach MSF "Fixed Income Derivatives" course (Fall semesters)
- Teach MSF "Advanced Fixed Income and Credit Risk Modeling" course (Spring semesters)

January 2006- April 2010

SAINT LOUIS UNIVERSITY FINANCE DEPARTMENT (SLU) — **St. Louis, MO**

Adjunct Professor of Finance

- Teach MBA "Fixed Income Securities and Markets" course (Winter'06&'07; Fall'07-'09)
- Teach MBA "Investments" course (Summer2006)

May 2004- May 2006

FEDERAL RESERVE BANK (FRB) — **St. Louis, MO**

Visiting Economist

- Collaborate research with M. Dueker on Bayesian estimation of DSGE models

May 2003- August 2004

EIDELMAN, FINGER & HARRIS, INC. — **St. Louis, MO**

Consultant for mutual fund managers

- Developed trading / screening tool by building empirical models of stock price dynamics

August 2001- March 2004

CROWN INVESTMENT PARTNERS, LLC — **St. Louis, MO**

Consultant for the hedge fund President and CEO

- Built rigorous templates for automated side-by-side valuation of large number of companies

May 2000- July 2001

STIFEL NICOLAUS, INC. — **St. Louis, MO**

Investment Banking Analyst

- Created rigorous Excel templates and macros in Visual Basic
- Utilized Alcar DCF, Excel, Research Insight (Compustat), and Bloomberg
- Personally dealt with CEOs and CFOs of clients while working on their project

PROFESSIONAL ACTIVITIES, CONFERENCES, AND AFFILIATIONS

May 2013	**SBIES CONFERENCE** *Presenter*	**Saint Louis, MO**
June 2009 - *Present*	**MASTER OF SCIENCE IN FINANCE (MSF) AT OLIN WASHU** *Advisory Board Member*	**Saint Louis, MO**
June'07-'10	**"ACTUARIAL SEMINAR" RGA PROFESSIONAL CONFERENCE** *Presenter*	**Saint Louis, MO**
June 2007	**"COMPUTING IN ECONOMICS AND FINANCE" SCE CONFERENCE** *Presenter*	**Montreal, Quebec**
March 2006	**SNDE CONFERENCE** *Presenter* • J. Ramsey **Best Paper Prize** for presenting "Timing Transitions Between Determinate and Indeterminate Equilibria"	**St. Louis, MO**
June 2005	**"COMPUTING IN ECONOMICS AND FINANCE" SCE CONFERENCE** *Presenter*	**Washington, D.C.**
August 2005	**FOMC FEDERAL RESERVE BRIEFING** *Presenter*	**Saint Louis, MO**
November 2004	**"DSGE MODELS AND FINANCIAL SECTOR" CONFERENCE** *Presenter*	**Eltville am Rhein, Germany**
2007-2008	**AMERICAN ACADEMY OF ACTUARIES SCENARIO GENERATION WORKING GROUP** *Member* • Provided interest rate scenarios and helped analyze comparable scenarios form the key industry vendors creating a set of recommendations for AAA regulatory body	
Summer 2009	**JOURNAL OF EMPIRICAL FINANCE (JEF)** *Referee*	
Spring 2008	**JOURNAL OF ECONOMIC DYNAMICS AND CONTROL (JEDC)** *Referee*	

OTHER DATA

- Enjoy programming in Matlab, C/C++, SAS, VBA, Gauss
- Language skills: fluently speak Russian, Ukrainian and possess basic knowledge of French
- Non-professional interests: reading semi-scientific publications in such fields as relativity theory, cosmology, quantum mechanics, AI research, DNA research, quantum computing, etc.
- Professional chess player since early childhood
- Certified winner of math and professional chess contests (including MAA) in high-school and college
- I was born in Ukraine in 1978 and became a **US citizen** in 2003
- "Papers of my youth" written in the dawn of my academic career: MSBA and M.A. thesis

September 2014