

Svetlana Varchenko

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OBJECTIVE

Seeking an Analytical/Statistical position that will utilize my **unique combination of mathematics, computer science, and statistics backgrounds** and challenge my strong analytical, organizational, and problem solving abilities. Among my strengths are excellent written and interpersonal communication skills, capability of working autonomously or in team environment, and personal qualities of creativeness, initiative and resourcefulness.

EXPERIENCE

<i>Oct '03 - present</i>	<i>Department Of Mathematics, UNC</i> <i>Chapel Hill, NC</i> Analyst/Designer (Aug '05 - Present) Develop applications in C, Fortran, Matlab Design and develop the research group web site
	<i>Office of Arts & Sciences Information Services, UNC</i> Application Developer (Oct '03 - Jan '06) I was a member of the group which provides full life cycle application development services to the College of Arts & Sciences. Applications we provided: Annual Report System; College of Arts and Sciences Intranet; Departmental Data Reporting; Digital Library Services; Nonpersonnel Request Application; Software Staffing Workload Database. Analyze user needs and requirements, design databases and programs. Program with VBA. Support, maintain, enhance and upgrade custom-built MS Access and other business.
<i>May '02 - Nov '02</i>	<i>Management Strategies</i> <i>Boston, MA</i> Software Developer Analyze user needs and requirements, design databases and programs. Program with VBA. System administrating the local network.
<i>Jun '99 - Jun '03</i>	<i>Maths Department, Kolomna University</i> <i>Moscow, Russia</i> Associate Professor Taught courses "Introduction to Probability and Statistical methods", "Computer Science" and a course "Mathematical Modeling" Tutorials in mathematical modeling, developing corresponding software in Pascal Developing applications in C/C++ for local use Administrating and technical support of university workstations Published 4 papers in scientific journals.

EDUCATION AND TRAINING

<i>Jan - May 2006</i>	<i>University of North Carolina at Chapel Hill</i>
Classes	COMP 114 - Advanced Java programming
<i>Oct 1996 - May 1999</i>	<i>Moscow University, Russia</i>
Degree	Ph.D. in Mathematics (Graduation: May '99)
<i>Aug 1990 - Jul 1995</i>	<i>Kolomna University, Russia</i>
Degree	M.S. in Mathematics (Graduation: July '95)

APPLICATIONS & LANGUAGES

Java, VBA, SQL, HTML, Matlab, Microsoft Office (Access, Word, Excel, PowerPoint, FrontPage), Microsoft Visual Studio, Dreamweaver, Adobe PhotoShop, Acrobat Writer, Flash.

BIBLIOGRAPHY

1. (joint with A.Varchenko) "**A remark on the sl_2 approximation of the Kontsevich integral of the unknot**" *Zap. Nauchn. Sem. S.-Peterburg. Otdel. Mat. Inst. Steklov (POMI)* **299** (2003), *Geom. i Topol.* **8**, 30 - 37, 326
2. (joint with A.Varchenko) "**Finite order invariants for $(n, 2)$ -torus knots and the curve $Y^2 = X^3 + X^2$** ". *Preprint*, <http://xxx.lanl.gov/abs/math.GT/0402185>
3. "**On formulas of Lannes and Viro-Polyak type for invariants of finite order**". *Math. Notes* **66** (1999), no. **3-4**, 525 - 530
4. "**Diagram formulas of Viro-Polyak type for finite-order invariants**". *Russian Math. Surveys* **54** (1999), no. **3**, 658 - 659

WEBSITES

<http://www.unc.edu/appdyn/> - *Applied Dynamical Systems* , 2006
<http://eco-irina-ermakova.narod.ru/eng/> - *Ecology and Life* , 2003

Several personal home pages:

<http://www.unc.edu/svetlana/> - *Svetlana Varchenko*
<http://www.math.unc.edu/Faculty/av/> - *Alexander Varchenko*
<http://mfmath.netfirms.com/> - *Sergey Khakalo*
<http://www.math.unc.edu/Faculty/jones/> - *Christopher Jones*