

# RESUMÉ

## ALEXANDRE SOROKINE

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### CONTACT INFORMATION

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### EDUCATION

08/2000–08/2004 Ph.D. (Geography), State University of New York at Buffalo

08/2000–08/2004 Advanced Certificate in Geographic Information Science (IGERT), State University of New York at Buffalo

09/1984–06/1989 M.Sc. Geography (Physical Geography), Diploma with honors, Moscow State University

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### PROFESSIONAL INTERESTS

- Geographic Information Science and Geospatial Ontology
- Interoperability Standards for Geographic Information Systems
- Parallel Computation Applications for Earth Sciences
- Geographic Visualization
- Environmental Modeling and Environmental Data Processing

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### SOFTWARE EXPERIENCE

#### GEOGRAPHIC INFORMATION SYSTEMS

- ArcGIS Engine, ArcGIS, ArcView, ARC/INFO, GRASS, PostgreSQL, ERDAS, AutoCAD

#### PROGRAMMING LANGUAGES AND TOOLS

- Java, perl, SQL, C/C++, Python, ARC/INFO AML, UNIX shell programming, FORTRAN

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 WORK EXPERIENCE

 OAK RIDGE NATIONAL LABORATORY, OAK RIDGE, TN, U.S.A.
 

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 08/2004–present *Research Scientist*

 DEPARTMENT OF GEOGRAPHY, UNIVERSITY AT BUFFALO, NY, U.S.A.
 

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 08/2000–08/2004 *Research Assistant, Instructor*

 REGIONAL SCIENCE INSTITUTE INC., SAPPORO, JAPAN
 

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 12/1996–08/2000 *Senior Researcher*

My major responsibilities were supervising and conducting numerous GIS projects including data processing, software development and spatial analysis.

## Other Activities

 01/1997–06/2001 company's representative at the Technical Committee of the OpenGIS Consortium (<http://www.opengis.org/>)

 INSTITUTE OF GEOGRAPHY, RUSSIAN ACADEMY OF SCIENCES, MOSCOW
 

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 05/1994–12/1996 *Researcher* at the research center "Geography of Hazards and Catastrophes"

 SEVERTSOV INSTITUTE OF ECOLOGY AND EVOLUTION, RUSSIAN ACADEMY OF SCIENCES, MOSCOW
 

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 01/1990 – 05/1994 *Senior Engineer*, Principal GIS Specialist at the Laboratory of General Ecology.

## Other Activities

02/91–12/91 a consultant for the Chernobyl commission of the USSR Parliament

05/91–12/91 a consultant for the "Committee of Public Experts" (non-government environmental group), participated in the industrial pollution assessment of the city of Ust-Kamenogorsk (Kazakhstan)

fall 1989 a consultant for the USSR State Planning Committee group for environmental impact assessment of Perekop (Crimea) chemical plant

 SEVERTSOV INSTITUTE OF THE USSR ACADEMY OF SCIENCES
 

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 summer 1988 *Laboratory assistant*

 LABORATORY OF THE FOREST SCIENCE OF THE USSR ACADEMY OF SCIENCES
 

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 summer 1987 *Field worker*

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## TEACHING/LECTURING EXPERIENCE

- spring 2002      *Geographic Information Systems and Environmental Modeling* — 4 credit hours course for graduate students at the University at Buffalo, instructor
- summer 1994      *Geographic information systems in UNIX environment* — practical course for GIS and UNIX newcomers at the Russian Academy of Sciences, author and instructor

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## INTERNSHIPS AND PROFESSIONAL CERTIFICATES

- 04/1992–05/1992   Environmental System Research Institute, (ESRI/Germany), Seminar in ARC/INFO 6.0, TIN erosion, TIN cascading and computerized modeling and mapping of Automated Geographic Data, certif. 5th May 1992
- 09/1991–10/1991   BFANL (Federal research center for nature conservation and landscape ecology, Bonn, Germany, <http://www.bfn.de/>) – Studying LANdscape Information System

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## LANGUAGES

English, Russian

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## MY CONTRIBUTION TO FREE SOFTWARE

- 07/2005      pd-GRASS: Parallel Display for GRASS GIS — pd-GRASS is a set of shell scripts that allow to distribute display functions of GRASS GIS through the network among several physical monitors in a synchronized manner, <http://www.ornl.gov/sci/gist/software/grass/>.
- 07/2000      GISI.pm — A set of Perl modules to access data in GIS formats and databases, based on the OpenGIS data model, <http://gisi-pm.sourceforge.net/>
- 07/1998      GRASS-JNI — Library of Java classes to access data and functions of GIS GRASS with the help of Java Native Interface, now part of GRASS distribution

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## MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Association of American Geographers (since 2000)

Knoxville, TN, 4th September 2005