Position Details

Position Information

Classification Group Title	Postdoctoral Fellow
Position Title	Postdoctoral Fellow
Location	Moscow
Division/College	College of Science
Department	Department of Statistics
FLSA Status	Overtime Exempt
Employee Category	Exempt
Pay Range	$50,000
Salary Grade	EX
Type of Appointment	Fiscal Year
FTE	1.0
Full Time/Part Time	Full Time
Funding	This position is contingent upon the continuation of work and/or funding.

Position Responsibilities

Internal Posting?	
Position Summary	The Idaho NSF EPSCoR MILES research project is seeking a computational statistician who has the ability to develop creative solutions to statistical and mathematical problems in the context of complex social and ecological modeling. The successful post doctoral candidate will directly work with the MILES NSF EPSCoR research group to address complex social ecological systems modeling and data interoperability challenges by creating and implementing scientifically and statistically sound methodologies. This position will be supervised by statistics faculty and housed within the University of Idaho Collaboratorium, a new initiative to bring strong mathematical, statistical and molecular modeling together to solve interdisciplinary problems. The computational statistician will: 1. Develop statistical methodology and visualization techniques for propagating data, scale, estimates and uncertainties among both spatial and time series models used in the MILES program. 2. Ensure scientifically and statistically robust integration and interoperability among social and ecological models. 3. Develop methods for assessing integrated model performance and identification of optimal models. 4. Work closely with the Northwest Knowledge Network to help guide and

develop interoperable data architecture to support integrative modeling.
5. Lead and co-author collaborative refereed publications with the MILES researchers.

Responsibilities

Job Duty Function	Research
Job Duties/Responsibilities	Work with MILES project modelers and data scientists to understand methodological gaps in current integration efforts and address these gaps with creative and robust solutions. Develop statistical methodology and visualization techniques for propagating data, scale, estimates and uncertainties in spatial and time series models used in the MILES program. Develop methods for assessing integrated model performance and identification of optimal models. Ensure scientifically and statistically robust integration and interoperability among social and ecological models. Lead and co-author collaborative refereed publications with the MILES researchers Work closely with the Northwest Knowledge Network to help guide and develop interoperable data architecture to support integrative modeling.
Job Duty Function	Presentation of Research Results
Job Duties/Responsibilities	Disseminate research results to scientists and stakeholders via multiple forums and formats, including but not limited to publications, conferences, symposiums, online content, and workshops.
Job Duty Function	Supervision
Job Duties/Responsibilities	Supervision of graduate students who are implementing methodologies may be required.
Job Duty Function	Other Support
Job Duties/Responsibilities	Coordination Travel: A critical aspect of this position will be to travel and meet in person with MILES researchers across the state, including Idaho State University and Boise State University. Updates and Reports: Production of materials for an annual report that focuses on the status of the MILES collaborative ecosystem modeling, data interoperability, visualization, and virtualization research.

Position Qualifications

Minimum Qualifications	Education: Ph.D. with emphasis in computational statistics or related field Demonstrated experience in publishing research results Demonstrated ability to innovate computational and statistical solutions to complex modeling problems. Demonstrated proficiency in at least one programming language such as C++, Python, Java Demonstrated proficiency in at least one statistical or mathematical software such as R, Matlab, SAS Demonstrated experience in presenting at workshops and conferences Demonstrated ability to work independently and with a group
Preferred Qualifications	Experience using a diverse array statistical, spatial, social, and Bayesian methods Experience in a wide array of spatial data such as social, geopolitical, LIDAR, digital elevation models, shape files, and vector and gridded data Experience using spatial analysis packages such as ENVI, ArcGIS, etc. Ability to develop and teach university-level courses Ability to work well in a large, multidisciplinary team
Physical Requirements & Working Conditions	

Posting Information

Posting Number	SP000335P
Posting Date	01/07/2015
Closing Date	
Open Until Filled	Yes
Special Instructions to Applicants	First priority will be given for applicants applying before February 6, 2015. Applications submitted after February 6, 2015 will be reviewed if the applications from first consideration pool are not successful. Please have 3 letters of reference sent to: stat@uidaho.edu or

Sarah Morra
875 Perimeter Dr. MS1104
Moscow, ID 83843-1104

All other required documents will be uploaded with your application.

Note: unofficial transcripts may be submitted electronically.

Background Check Statement

Applicants who are selected as final possible candidates may be required to pass a criminal background check.

EEO Statement

The University of Idaho is an equal opportunity and affirmative action employer. It is the policy of the regents that equal opportunity be afforded in education and employment to qualified persons regardless of race, color, national origin, religion, sex, age, disability, or status as a disabled veteran or Vietnam-era veteran. It is also the policy of the University of Idaho to not discriminate based on sexual orientation.