**Center for Statistical Training and Consulting (CSTAT)**
**Information Sheet for Graduate Student Research Assistants Applicants**

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Semester(s) applying for: Spring Summer Fall

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Email \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address/Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date when you plan to graduate: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ph.D. Degree expected and subject: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Completed B.S. or B.A., Subject/University/Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Completed M.S. or M.A., Subject/University/Date (if applicable)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Have you already completed your Ph.D. comprehensive/qualifying exams? If not, state when you expect to do that: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Preference: ½ time appointment (20 hours/week) incl. tuition
 Hourly appointment

1. Describe why you would like to work at CSTAT.
2. Please list any CSTAT seminars/workshops or courses on Coursera, EdX, Udemy that you have taken.
3. Please list any research methods and research design courses that you have taken.
4. Please list statistics and computing courses that you have taken.
5. What are your computational skills? If software relevant to your skills is missing, please add it to the bottom of the list as a new row.

|  |  |  |  |
| --- | --- | --- | --- |
| **Software** | **Rating**0 = little/no experience1= moderate experience2 =extensive experience | **Software** | **Rating** 0 = little/no experience1= moderate experience2 =extensive experience |
| R |  | Mplus |  |
| R markdown |  | Access/ databases |  |
| Quarto |  | Python |  |
| SAS |  | STAN |  |
| SPSS |  | WinBUGS/OpenBUGS/JAGS |  |
| STATA |  | Git |  |
| MATLAB |  | Other:\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

1. Please rate both your current level of experience and skill and your level of interest in each of the following statistics topics. If a topic relevant to your skills is missing, please add it to the bottom of the list.

| **Statistical Topics** | **Experience & Skill**0 = little/none1= moderate2 =extensive  | **Level of Interest**0 = little/none1= moderate2 = high | **Comments** |
| --- | --- | --- | --- |
| Bayesian statistics |  |  |  |
| Categorical data analysis |  |  |  |
| Data management |  |  |  |
| Data visualization |  |  |  |
| Dose-response curves/models |  |  |  |
| Evaluation of regression models |  |  |  |
| Experimental design |  |  |  |
| Longitudinal data analysis |  |  |  |
| Machine learning algorithms (e.g. lasso, random forests, SVM, boosted classifiers) |  |  |  |
| Measurement development & psychometrics |  |  |  |
| Missing data  |  |  |  |
| Mixed effects models (multilevel models, random effects models) |  |  |  |
| Time dependent outcomes (survival, landmark, dynamic prediction) |  |  |  |
| Power analysis and sample size planning |  |  |  |
| Qualitative research methods |  |  |  |
| Regression analysis (linear and generalized linear models, variable selection) |  |  |  |
| Social network analysis  |  |  |  |
| Spatial or spatio-temporal data analysis |  |  |  |
| Statistical genomics/genetics |  |  |  |
| Structural equation models (SEM) & latent variable models |  |  |  |
| Survey research |  |  |  |
| Systematic reviews and meta analyses |  |  |  |

1. Describe any other work experience or qualifications that you have.
2. Please list contact information (name, title, email address, & phone number) for at least two professional references who are familiar with your research and statistical work.