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| Established Logo | **Harvard Statistics Department**  Statistics 91r Project Form |

**INFORMATION:** Stat 91r, Supervised Reading and Research, is a letter-graded course. The Statistics Co-Directors of Undergraduate Studies are the instructors officially “offering” the course for registration purposes, but in reality, each individual student will be supervised by an individual faculty member. Any Statistics Department faculty member can be the supervisor (as can non-Stat faculty, with prior approval from a DUS). This document is an internal Statistics Department form documenting the understanding between the student, the Statistics faculty supervisor, and the Co-DUSes. This form should describe the student’s project and the basis on which the supervisor will evaluate it (submission of a report, presentation, etc.), and must be signed by both parties.

**INSTRUCTIONS:** The student fills out the top portion of this form. The student and supervisor exchange this document electronically until both are satisfied with its description of the project and the basis for evaluation. The student “signs” at the bottom and sends the “signed” form to the supervisor. Then the supervisor “signs” at the bottom and emails the signed copy to Statistics Programs Administrator, Alice Moses ([amoses@fas.harvard.edu](mailto:amoses@fas.harvard.edu)) from the supervisor’s official Harvard email address. The Co-DUSes will officially register the student for the course only upon receipt of the signed form from the supervisor. Student and supervisor will both receive copies of the completed document, signed by one of the Co-DUSes.

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| Semester (mark “X”): |  | Fall | x | Spring | Year: | 2017 |

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| Student’s Name: |  | Christine Chae Hwang |
| Student’s Email: |  | chaehwang@college.harvard.edu |
| Instructor’s Name: |  | Michael Parzen |
| Instructor’s Email: |  | michaelparzen@gmail.com |

Provide a brief description of the project for this course:

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| I will be researching the Airbnb dataset to analyze what types of Airbnb rentals tend to have the highest rates. I want to explore different types of algorithms in the process using multi-level models and clustering to improve the accuracy. I will also explore the comments of the Airbnb rentals and work with language processing algorithms for marketing uses to suggest a set of buzz words that correlate to high prices. |

Describe the basis on which the project will be evaluated. Work must be submitted to supervising instructor by the last day of the reading period, unless an earlier date is specified here:

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| I will be submitting a research paper at the end of the semester depicting my findings of the Airbnb research. |

[“/s/” = sign by typing]

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| Student’s signature: |  | /s/ Christine Hwang | Date: | 1/24/2017 |
| Instructor’s signature: |  | /s/ | Date: |  |
| DUS’s signature: |  | /s/ | Date: |  |