Department of Computer Science

Courant Institute of Mathematical
Sciences
251 Mercer Street
New York, NY 10012
P: 212 998 3011
F: 212 995 4124

**NYU | COURANT**

# Master's Independent Study Authorization Form

| Student Information | |
|---|---|
| Name: (Last, First)<br><br>Saxe, Ryan | **University ID #**<br><br>N13816116 |

| Independent Study Information | |
|---|---|
| **Term & Year**<br><br>Term:_____Spring_____ Year: _____2017_____ | **Number of Credits:**<br><br>_____3_____ |

**Brief Description of Independent Study:**

The focus of this Independent Study is the creation of a nutrition platform. There are two goals. First, create a user environment such that, given information about the user, a set of meals can be customized to his or her nutritional needs. Second, in tandem with feedback from the first aspect of the project, improve the recommender system tailored specifically for that user. In addition to these main goals, there are a variety of tools that can be created to improve the overall application, one example is a machine-vision portion estimator. Throughout the semester Ryan will employ modern machine learning techniques and linear programming in order to assist with this research project.

**SIGNATURES**

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|---|---|---|---|
| Student Name: Ryan Saxe | Signature: | | Date: 01/11/17 |
| Professor Name: | Signature: | | Date: |
| DGS Name: | Signature: | | Date: |

**IMPORTANT GUIDELINES FOR INDEPENDENT STUDY**

❖ Students must arrange to work on independent study projects under the direction of a full-time Department of Computer Science faculty member.

❖ Students should submit this form, after it is completed and signed off on by the professor, to their advisor, either Katie Laugel in CIWW 326 or Courtney Mills in CIWW 324.