

# Regents' and Chancellor's Research Fellowship Application 2015-2016

**INSTRUCTIONS:** Complete the application forms, give a copy of them to the faculty member who will sponsor and direct you in the research project for review, and ask him/her to complete the Faculty Sponsor's Statement. **Note: If you received this fellowship in the past, you may be eligible to apply again on a case by case basis. The Committee will make the final decision.**

**DEADLINE:** All application materials (including the Faculty Sponsor Statement) must be submitted to the Undergraduate Scholarships, Prizes, and Honors Office in 210 Sproul Hall or by email to: [bberends@berkeley.edu](mailto:bberends@berkeley.edu) by **Monday, January 4<sup>th</sup>, 2015, 5:00 PM.**

## PLEASE PRINT OR TYPE

Student ID #: 26793499 Date of Birth: 10/19/96 Cumulative GPA: 3.77

Name: William Hebgen Guss  
First Middle Last

E-mail address: wguss@berkeley.edu

Academic Status for 2015-2016: Freshman ☒ Sophomore ☐ Junior ☐ Senior ☐

College/ Major: College of Engineering (EECS & Pure Math Double)

Expected Graduation Date (month/year): May 2019

Please list names and e-mail addresses of other students if participating in a group proposal:

Phillip Kuznetsov - philkuz@berkeley.edu

Title of the research project: OpenBrain: A Massively Asynchronous Recurrent Neural Turing Machine

Time period of project (start & finish dates): 1/25/2016-1/25/2017

Funds Requested: \$3860.20 (Provide breakdown in statement)

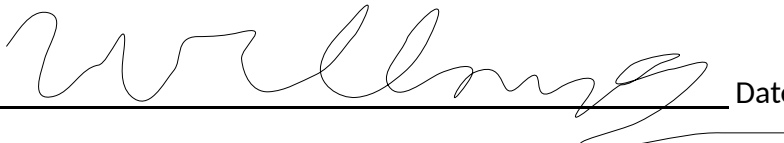
## FACULTY SPONSOR INFORMATION:

Name: Peter Bartlett

Academic Title: Professor

Department: Computer Science Division and Department of Statistics

Email: bartlett@cs.berkeley.edu

Applicant Signature:  Date: 1/3/16

## PROJECT DESCRIPTION

Please prepare a description of your project according to the following format. Failure to provide complete information for each of the required headings may prejudice review and evaluation of your application.

1. **BACKGROUND:** In 1 or 2 paragraphs discuss the background of your project, describing how it fits into previous or current efforts by others in your area.
2. **GOAL OF THE PROJECT:** Briefly state the goal(s) you intend to achieve as a result of your efforts under the proposed project. If the purpose of your application is to help cover travel expenses, please describe the benefits and itinerary of your trip.
3. **PROJECT PLANS:** Describe in detail how you intend to achieve the goal(s) stated in Section 2. Sufficient detail on experimental design must be provided to enable reasonable scientific review.
4. **QUALIFICATIONS:** List coursework in progress or completed that is relevant to the proposed project. Describe other related experience, if any.
5. **SIGNIFICANCE OF THE PROJECT:** State how you think the goals set for your project, if achieved, would advance the state of knowledge in your chosen field or would benefit society at large.

**NOTE:** Final selections will be based on both the merit of the proposal and the student's academic record. **Applicants will be notified no later than the third week of January 2016 of the Committee's decision.**

## BUDGET


- I. Itemize your budget in detail and explain all expenses. Fellowship funds may not be used to purchase major pieces of non-expendable equipment. Fellowship funds cannot be used to support department facilities. The fellowship may not be used to pay a stipend to the applicant nor to hire any assistants. A portion of the budget can be designated to compensate experimental subjects.

A. Total estimated budget of project	\$ <u>3860.20</u>
B. Amount you can contribute	\$ <u>100</u>
C. Amount of funding from other sources <i>Do not include your scholarship award (fall or spring disbursements) as a source of funding.</i>	\$ <u>0</u>
D. Total of B and C	\$ <u>100</u>
E. The difference between A and D <i>The amount you request from Fellowship funds.</i>	\$ <u>3760.20</u>
F. Minimum amount needed for project to be carried out. <i>If program funding does not allow this minimum, funds will not be awarded for this project.</i>	\$ <u>1200</u>

- II. If your work will be funded, even in part, by any other sources, please explain. List the source, amount, and purpose. **Note: do NOT include your scholarship award (fall or spring disbursements) as a source of funding.**

I understand a final report for my project must be submitted to my sponsoring professor before I graduate. I will send written notification to the Undergraduate Scholarships, Prizes, and Honors Office, 210 Sproul Hall, when I have completed my project.

**William Guss**

Your Name (type or print): \_\_\_\_\_  
 Signature:  Date: 1/3/16

**-- IMPORTANT NOTICE --**

-- Does any part of your research involve experimentation with live vertebrate animals?

N/A

-- Does any part of your research involve human subjects (including interviews and cognitive tests)?

N/A

If so, university policy and federal law require that you follow certain procedures:

**PROTOCOL FOR THE USE OF LIVE VERTEBRATE  
ANIMALS IN RESEARCH OR TEACHING**

**PROTOCOL SUBMISSION AND REVIEW**

An Animal Use Protocol must be filed with the Animal Care and Use Committee (ACUC) for all uses of live vertebrate animals in research or teaching, including non-disruptive field studies on unconfined animals, please visit [www.acuc.berkeley.edu](http://www.acuc.berkeley.edu) for this form. A Protocol signed by the faculty member in charge of the research or teaching and fully approved by ACUC must be on file with ACUC before commencement of any research or teaching activity involving live animals. All other Protocols must be submitted at least 8 weeks before animal use is scheduled to begin.

**ACQUISITION OF ANIMALS**

Vertebrate animals may not be purchased or otherwise acquired until an approved Protocol is on file. All animals must be ordered through the Office of Laboratory Animal Care (OLAC) order desk (642-1990).

**RESEARCH INVOLVING HUMAN SUBJECTS**

You must notify the Committee for the Protection of Human Subjects (CPHS) before beginning the research. If your research is exempt from CPHS review, you must file a short statement of exemption. If your research is subject to the CPHS's review, you must submit a "protocol" describing your project in some detail. For further information, you must consult the Committee's staff at 2150 Shattuck Ave #313, Berkeley, CA (642.7461).

## FACULTY SPONSOR STATEMENT

**TO THE FACULTY SPONSOR:** Before completing this form, please review pages 1-3 of this application as completed by the student. You may return your completed form to the student or submit it directly to the Undergraduate Scholarships, Prizes, and Honors Office in 210 Sproul or via email to: [bberends@berkeley.edu](mailto:bberends@berkeley.edu). **Note: form is due by 5:00pm on Monday, December 21<sup>st</sup>, 2015.**

Faculty Sponsor Name: \_\_\_\_\_

Department: \_\_\_\_\_ E-mail address: \_\_\_\_\_

Name(s) of Student(s): \_\_\_\_\_

Title of Research Project: \_\_\_\_\_

**Your Evaluation:** Is the project worthwhile? Is the applicant capable and prepared? Is the student likely to complete it successfully in the time specified?

Do you approve of the estimated budget of the project? (Yes/No) \_\_\_\_\_

If not, explain how you would revise it and include your estimated cost of the project:

\_\_\_\_\_  
\_\_\_\_\_

*I will supervise this student's project closely and see to it that the applicant receives academic credit for the project:*

Signature: \_\_\_\_\_ Date: \_\_\_\_\_