BUDGET JUSTIFICATION

I. DIRECT COSTS

A. SENIOR PERSONNEL

Principal Investigator. Dr. Kiel Christianson will serve as Principal Investigator for the Project. Dr. Christianson will have primary responsibility for oversight of the project. He will be available to advise on project design and conduct, and ultimately responsible for scientific conduct and fiscal operations. In accordance with RFP regulations, no time is budgeted for PI.

Co-Principal Investigator. Kent Lee will serve as Co-Principal Investigator for the Project. In accordance with RFP regulations, no time is budgeted for Kent Lee, but he will be responsible for conduct of project activities.

B. OTHER PERSONNEL. None

C. FRINGE BENEFITS. None

E. TRAVEL. None

G. OTHER DIRECT COSTS

Materials and Supplies

1. Consumable Project Supplies.

Printing Supplies. Funds are needed to cover the costs of paper and toner cartridges for printing the surveys, as each survey is approximately 10-15 pages in length, and 400 surveys are to be administered (200 for Survey 1, 200 for Survey 2, approximately 5000-6000 pages). Toner cartridges for a Samsung ML-2152W laser printer cost approximately $100-140 each. The funds will cover 2-3 toner cartridges and several boxes of paper (c. $20-30 each).

2. Software

E-Prime license key. E-Prime is a psycholinguistic software package used for the experiments. A license key is required to run the full version of E-Prime on a new computer, and the full version is needed for programming and running experiments of such length. Other software is needed for further analysis of the survey data and of some experiments, namely, HLM 6 (http://www.ssicentral.com) is needed for full hierarchical linear modeling analysis, as it provides a more suitable interface for HLM and effect size statistics that are not available in other packages such as SPSS. SPSS 15. For analyzing data, SPSS will be used for ANOVAs, ANCOVAs, and regression analyses. Adobe Acrobat 9 Professional is required for publication and submission of the research to professional journals. The software will be purchased through the University of Illinois Campus Web Store, which offers discounted site-licensed software to students (http://webstore.uiuc.edu).

3. E-Prime Serial Response Box. The software and experimental design require the E-Prime SR (serial response) Box, a button box for accurately recording subjects' responses (http://www.pstnet.com/products/E-Prime), so a button box is required for the new experimental computer.
4. Expensed Equipment
Dell Optiplex Computer. Our lab has two computers, which are shared by eight graduate
students in the lab and are in constant use. Only one computer is set up as an experimental
station, with the proper equipment and fully licensed software. The other computer is not reliable
enough for running experiments, and is reserved for other purposes. The one experimental
station computer must be shared by all graduate students running experiments, so another new
computer will be needed as an experimental station, so that I can run my experiments without
significant delays or scheduling conflicts, especially during regular semesters when our lab is
very busy with multiple experiments in progress at once.

OTHER
Survey Costs (400 Subjects @ $4 per Subject). Subjects who fill out surveys (c. 20-25 minutes
each) are paid $4.
Experiment Costs (120 Subjects @ $7 per Subject). Subjects who participate in the 70 minute
computer experiments are paid $7 each. Subjects are recruited from the university community.
Linguistic Contributors. Three informants with a background in Chinese linguistics and
psycholinguistic have been hired as academic hourly assistants, to check through the
experimental stimuli and to help create some stimuli, such as Chinese synonyms for some
target items. They are paid at a rate of $10/hour. The second set of laboratory experiments
involves a language production task, in which subjects name the Chinese characters seen on
the screen and are recorded.
Transcription Costs. The services of a transcriber (a Chinese speaker and linguist) will be
employed to transcribe the recordings. These services will be provided by a trained linguist with
a good ability to transcribe Chinese words and tones correctly so I can analyze the data
effectively and in a timely manner.

II. INDIRECT COSTS
As specified by funder, indirect costs are not calculated.