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| **APPLICANT/FELLOW BIOGRAPHICAL SKETCH (SAMPLE)****USE ONLY FOR INDIVIDUAL PREDOCTORAL and POSTDOCTORAL FELLOWSHIPS.**  **DO NOT EXCEED FOUR PAGES.** |
| NAME OF APPLICANT/FELLOWLeilani Robertson-Chang  | POSITION TITLEPostdoctoral researcher |
| eRA COMMONS USER NAME (credential, e.g., agency login)RobertsonL |
| EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)* |
| INSTITUTION AND LOCATION | DEGREE*(if applicable)* | YEAR(s) | FIELD OF STUDY |
| Swarthmore College | B.S. | 05/1996 | Engineering |
| UC San Diego  | Ph.D. | 09/2004 | Molecular biology |
| Michigan State University (postdoc) | n/a | n/a | Bioinformatics |
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Please refer to the application instructions in order to complete sections A, B, and C of the Biographical Sketch.

**NOTE: The Biographical Sketch may not exceed four pages. Follow the formats and instructions on the attached sample.**

**A. Positions and Honors.** List in chronological order all non-degree training, including postdoctoral research training, all employment after college, and any military service. Clinicians should include information on internship, residency and specialty board certification (actual and anticipated with dates) in addition to other information requested. State the Activity/Occupation and include beginning/end dates, field, name of institution/company, and the name of your supervisor/employer.

# A. Positions and Honors

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| ACTIVITY/OCCUPATION | BEGINNINGDATE (mm/yy) | ENDINGDATE (mm/yy) | FIELD | INSTITUTION/COMPANY | SUPERVISOR/EMPLOYER |
| Engineer | 08/96 | 06/98 | Structural engineering | The IBeam Group | Sandip Mehta |
| Postdoc | 10/04 | 12/04 | Molecular biology | UC San Diego | G. Chadwick Murray  |
| Postdoc | 01/05 | present | Bioinformatics | Michigan State University | Anthony J. Balducci |
|  |  |  |  |  |  |

**Academic and Professional Honors.** List any academic and professional honors. Include all scholarships, traineeships, fellowships, and development awards other than Kirschstein-NRSA. Indicates sources of awards, dates, and grant or award numbers. List current memberships in professional societies, if applicable.

Daughters of Hawaii Scholarship, 1992-1994

National Merit Scholarship, 1992-1996

Paula F. Laufenberg award for best senior project in the Department of Engineering, Swarthmore College, 1996

B.S. awarded with high honors, Swarthmore College, 1996

STAR award for public service in engineering, The IBeam Group, 1998

Ford Foundation Predoctoral Fellowship for Minorities, 1999-2002

Memberships in professional societies:

Sigma Xi

Association for Women in Science

National Society for Bioinformatics and Biotechnology

**B.** **Publications (in chronological order).** List your entire bibliography, separating research papers, abstracts, book chapters and reviews. Within each subsection the list should be chronological. Manuscripts listed as “pending publication” or “in preparation” should be included and identified.

Research papers:

Lorentson, C., Robertson-Chang, L., Sauer, N., and Mehta, S. 1997. Use of high-tensile concrete in cantilevered structures. J. Applied Engineering 63, 413-424.

Robertson-Chang, L., Yager, L.N., and Murray, G.C. 2003. Rtc is an essential component of the Drosophila innate immune response. Genetics 145, 884-891.

Yao, M., Dionne, C.-F., Robertson-Chang, L., and Murray, G.C. 2004. Up-regulation of Drosophila innate immunity genes in response to stress. Science 304, 1754-1756.

Robertson-Chang, L., Cescaloo, Q., and Murray, G.C. 2005. Structural analysis of Drosophila Rtc. In preparation.

Abstracts:

Robertson-Chang, L. and Janessa, A.J. 1995. Redesigning the Golden Gate bridge. Abstract for poster presentation, National Undergraduate Symposium on Science and Engineering, Baltimore, MD.

Robertson-Chang, L., Dionne, C-F., Yager, L.N. and Murray, G.C. 2004. Characterization of Rtc, an essential component of the innate immune response. Abstract for poster presentation, 48th Annual Drosophila Research Conference, Bozeman, MT.

Robertson-Chang, L. Using the Pugh-Andersen algorithm to evaluate microarray data. Abstract (submitted) for platform presentation, National Society for Bioinformatics and Biotechnology Annual Conference, Charleston, SC, November 2005.

Reviews:

Robertson-Chang, L. and Murray, G.C. 2003. Stress, flies, and videotape: the Drosophila stress response. Ann. Rev. Physiol. 346, 223-245.

**C. Scholastic Performance. *Predoctoral*** applicants: Using the chart provided, list by institution and year all undergraduate and graduate courses with grades. ***Postdoctoral*** applicants: Using the chart provided, list by institution and year all undergraduate courses and graduate scientific and/or professional courses germane to the training sought under this award with grades. In the space following the chart, explain marking system if other than 1-100; A, B, C, D, F, or 0 – 4.0. Show level required for passing. Predoctoral applicants should provide Graduate Record Examination scores, if available. MD/PhD applicants should provide MCAT scores, if available.

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| **SCIENCE** | **OTHER** |
| YEAR | COURSE TITLE | GRADE | YEAR | COURSE TITLE | GRADE |
|  |  SWARTHMORE COLLEGE |  |  | SWARTHMORE COLLEGE |  |
| 1993 | Introduction to Molecular Biology | A | 1992 | Introduction to Engineering | A |
| 1993 | Introductory Chemistry I | B | 1992 | Calculus I | A |
| 1993 | Physics for Engineers  | A | 1993 | Calculus II | B |
| 1994 | Introductory Chemistry II | C | 1993 | Structures and Design | A |
| 1994 | Organic Chemistry I | A | 1993 | Linear Algebra | B |
| 1995 | Organic Chemistry II | A | 1994 | Structural Materials | B |
| 1995 | Biochemistry | A | 1994 | Structural Materials Laboratory | A |
| 1996 | Cell Biology  | A | 1994 | Numerical Computation & Graphics Tools  | A |
|  |  |  | 1994 | Engineering Graphics and Computer- Assisted |  |
|  | UC SAN DIEGO  |  |  |  Assisted Design | A |
| 1998 | Seminar in Genetics | P | 1994 | Principles of Structural Design I  | B |
| 1999 | Statistics for the Life Sciences | P | 1994 | Statistics, Probability, and Reliability | A |
| 2000 | Ethics in Biological Research | CRE | 1995 | Principles of Structural Design II | A |
| 2001 | Seminar in Physiology & Behavior | P | 1996 | Senior Project  | A |
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Except for the scientific ethics course, UC San Diego graduate courses are graded P (pass) or F (fail). Passing is C plus or better. The scientific ethics course is graded CRE (credit) or NC (no credit). Students must attend at least seven of the eight presentation/discussion sessions for credit.