

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

| NAME Joyce Macabéa, Ph.D. | | POSITION TITLE Research Fellow | |
|---|----------------------------------|-----------------------------------|----------------|
| eRA COMMONS USER NAME | | | |
| EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i> | | | |
| INSTITUTION AND LOCATION | DEGREE <i>(if applicable)</i> | YEAR(s) | FIELD OF STUDY |
| City University of New York, Bronx NY | B.A. | 1997 | Mathematics |
| Boston University, Boston MA | M.S. | 2000 | Mathematics |
| Boston University, Boston MA | Ph.D. | 2004 | Mathematics |

NOTE: The Biographical Sketch may not exceed four pages. Items A and B (together) may not exceed two of the four-page limit. Follow the formats and instructions on the attached sample.

A. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

Positions

- 1994-1997 Math Tutor, Lehman College CUNY.
- Summer 1996 Summer Program for Women in Mathematics, Ergodic Theory and Combinatorics
George Washington University
- Fall 1996 Project Ascend Graduate Center Research Experience, Chaotic Dynamical Systems:
Transitivity- A Necessary or Sufficient Condition
Advisor: Prof. Linda Keen, Lehman College CUNY
- Summer 1998 Instructor, Calculus for the Life and Social Sciences, Boston University
- Summer 1999 Graduate Assistant, Summer Program for Women in Mathematics, George Washington
University
- 1999-2004 Ph.D. Thesis Research, Ring Particle Dynamics of Shepherding Moon Systems
Periodic Orbits for Exact Symplectic Twist Maps on High Dimensional Annuli
Advisor: Prof. Glen R. Hall, Boston University
- Summer 2000 Graduate Assistant, Summer Program for Women in Mathematics, George Washington
University
- Summer 2002 Instructor, Differential Equations, Boston University
- 2004-Present MSI Research Fellow, Molecular Sciences Institute, Berkeley, CA
- Summer 2005 Instructor, Mathematical Modeling of Biological Systems, Molecular Sciences Institute,
Genomic Summer Internship Program

Honors

1994-1997 Lehman Scholars Program, Lehman College CUNY
1995 Golden Key National Honor Society, inducted
1996 Thomas Jefferson Award in Mathematics, Lehman College CUNY
1997 Tutor of the Year Award
1997 Anne Grossman Award in Mathematics, Lehman College CUNY
1997 Jane Harris Scholarship for Academic Excellence & Community Service, Lehman College CUNY
1997 Phi Beta Kappa Honor Society, inducted
1997-2000 Martin Luther King Jr. Fellowship, Boston University
Fall 1999 Teaching Fellowship, Boston University
Fall 2000 Teaching Fellowship, Boston University
Fall 2001 Teaching Fellowship, Boston University
Spring 2002 Teaching Fellowship, Boston University
Fall 2002 Research Assistantship, Boston University
Spring 2003 Teaching Fellowship, Boston University

Other Experience

Summer 1995 Teaching Assistant and Lecturer, College Algebra, Lehman College CUNY.
Spring 1996 Independent study, High Temperature Super-Conductors: Numerical Analysis of Experimental Data
Advisors: Prof. Ronald Dickman (Math), Eugene Chudnovsky (Physics) Lehman College CUNY
6/12-13/2000 Workshop, Program in Mathematical and Computational Challenges in Molecular and Cell Biology, North Carolina State University, Center for Scientific Research on Computation, a part of the Statistical and Applied Mathematical Sciences Institute (SAMSI)
7/21-29/2003 Workshop, Industrial Mathematics and Statistics Modeling Workshop for Graduate Students, North Carolina State University, Center for Scientific Research on Computation, a part of the Statistical and Applied Mathematical Sciences Institute (SAMSI)
Summer 2003 Modeling Workshop for Graduate, Evaluating the Physiologically Based Pharmacokinetic (PBPK) Model Proposed for Use in Environmental Risk Assessment
Problem Presenters: Dr. Hugh Burton, Dr. Woodrow Setzer, US Environmental Protection Agency
Faculty Advisor: Prof. H.T. Banks, NC State University, Associate Director of SAMSI

B. Selected peer-reviewed publications (in chronological order). Do not include publications submitted or in preparation.

None

C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.

Ongoing Research Support

None

Completed Research Support

None