BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.

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NAME: Owens, John

eRA COMMONS USER NAME (credential, e.g., agency login):

POSITION TITLE: Child Family Professor of Engineering and Entrepreneurship

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)

INSTITUTION AND LOCATION	DEGREE	END DATE	FIELD OF STUDY
	(if applicable)	MM/YYYY	
Stanford University, Stanford, California	PHD	01/2003	Electrical Engineering
Stanford University, Stanford, California	MS	03/1997	Electrical Engineering
University of California, Berkeley, Berkeley, California	BS		Electrical Engineering and Computer Sciences

A. Personal Statement

Products Most Closely Related to the Proposed Project

- Pan Y, Pearce R, Owens J. Scalable Breadth-First Search on a GPU Cluster. Proceedings of the 32nd IEEE International Parallel and Distributed Processing Symposium. 2018; :1090-1101. Available from: https://escholarship.org/uc/item/9bd842z6 DOI: 10.1109/IPDPS.2018.00118
- 2. Wang Y, Pan Y, Davidson A, Wu Y, Yang C, Wang L, Osama M, Yuan C, Liu W, Riffel A, Owens J. Gunrock: GPU Graph Analytics. ACM Transactions on Parallel Computing. 2017; 4(1):3:1-3:49. Available from: http://escholarship.org/uc/item/9gj6r1dj DOI: 10.1145/3108140
- 3. Stuart J, Owens J. Message Passing on Data-Parallel Architectures. Proceedings of the 23rd IEEE International Parallel and Distributed Processing Symposium. 2009. Available from: https://escholarship.org/uc/item/1vc4t6jg DOI: 10.1109/IPDPS.2009.5161065
- 4. Owens J, Luebke D, Govindaraju N, Harris M, Krüger J, Lefohn A, Purcell T. A Survey of General-Purpose Computation on Graphics Hardware. Computer Graphics Forum. 2007; 26(1):80-113. Available from: https://escholarship.org/uc/item/9ns2d70c DOI: 10.1111/j.1467-8659.2007.01012.x

B. Positions, Scientific Appointments and Honors

Positions and Scientific Appointments

2014 -	Child Family Professor of Engineering and Entrepreneurship, University of California,
	Davis, Department of Electrical and Computer Engineering, Davis, California
2012 - 2012	Software Engineer, Twitter, Runtime Systems Group, San Francisco, California
2008 - 2014	Associate Professor, University of California, Davis, Department of Electrical and
	Computer Engineering, Davis, California
2003 - 2008	Assistant Professor, University of California, Davis, Department of Electrical and
	Computer Engineering, Davis, California
1995 - 2002	Research Assistant, Stanford University, Department of Electrical Engineering, Stanford,
	California

Honors

AAS)	
	AAS)

Fellow, IEEE

C. Contribution to Science

- 1. Other Significant Products, Whether or Not Related to the Proposed Project
 - a. Pan Y, Pearce R, Owens J. Scalable Breadth-First Search on a GPU Cluster. Proceedings of the 32nd IEEE International Parallel and Distributed Processing Symposium. 2018; :1090-1101. Available from: https://escholarship.org/uc/item/9bd842z6 DOI: 10.1109/IPDPS.2018.00118
 - b. Wang Y, Pan Y, Davidson A, Wu Y, Yang C, Wang L, Osama M, Yuan C, Liu W, Riffel A, Owens J. Gunrock: GPU Graph Analytics. ACM Transactions on Parallel Computing. 2017; 4(1):3:1-3:49. Available from: http://escholarship.org/uc/item/9gj6r1dj DOI: 10.1145/3108140
 - c. Stuart J, Owens J. Message Passing on Data-Parallel Architectures. Proceedings of the 23rd IEEE International Parallel and Distributed Processing Symposium. 2009. Available from: https://escholarship.org/uc/item/1vc4t6jg DOI: 10.1109/IPDPS.2009.5161065
 - d. Owens J, Luebke D, Govindaraju N, Harris M, Krüger J, Lefohn A, Purcell T. A Survey of General-Purpose Computation on Graphics Hardware. Computer Graphics Forum. 2007; 26(1):80-113. Available from: https://escholarship.org/uc/item/9ns2d70c DOI: 10.1111/j.1467-8659.2007.01012.x

2. Synergistic Activities

- Chair, OpenCilk Academic Board, 2022-present
- Instructor, Udacity CS 344, "Introduction to Parallel Programming" (with D. Luebke), as a massively open online course (MOOC). 100,000+ students