

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 Amarendra K. Das		POSITION TITLE Assistant Professor	
eRA COMMONS USER NAME DAS.AMARENDRA			
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
Northwestern University, Evanston, Illinois	B.A.	1989	Anthropology and Mathematical Methods in the Social Sciences
Stanford University, Stanford, California	M.D.	1997	Medicine
Stanford University, Stanford, California	Ph.D.	2002	Medical Information Sciences
Columbia University, New York, New York		2004	Clinical Epidemiology

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.

- 1991-1995 NLM PREDOCTORAL FELLOW, Stanford Medical Informatics, Stanford University, Stanford, CA
 1997-2001 INTERN AND RESIDENT, Department of Psychiatry, Columbia University/New York State Psychiatric Institute, New York, NY
 2000-2001 CHIEF RESIDENT, Department of Psychiatry, Columbia University/New York State Psychiatric Institute, New York, NY
 2001-2004 NIMH POSTDOCTORAL FELLOW, Department of Psychiatry, Columbia University, New York, NY
 2001-2003 ASSISTANT ATTENDING PSYCHIATRIST, Comprehensive Psychiatry Emergency Program, New York Presbyterian Hospital, New York, NY
 2001-2004 ATTENDING PSYCHIATRIST, New York State Psychiatric Institute, New York, NY
 2004- ASSISTANT PROFESSOR, Department of Medicine (Medical Informatics) and Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, CA

Honors

- 1989 Phi Beta Kappa, Northwestern University
 1989 Honors, Senior Thesis, Program in Mathematical Methods in the Social Sciences, Northwestern University
 1992 Best Theoretical Paper, Sixteenth Annual Symposium on Computer Applications in Medical Care, Baltimore, MD
 1995 Second Place Award, Student Paper Competition, Nineteenth Annual Symposium on Computer Applications in Medical Care, New Orleans, LA
 1999 American Psychiatric Association/GlaxoWellcome Fellowship Award
 2001 Van Ameringen Foundation/American Psychiatric Association Health Services Research Scholar
 2001 Finalist, Student Paper Competition, American Medical Informatics Association Symposium, Washington, DC
 2001 Alumni Award for Excellence in Administrative Psychiatry, Department of Psychiatry, Columbia University

Professional Societies

- 1990- American Medical Informatics Association
 1999- American Psychiatric Association
 2005- Association for Computing Machinery
 2005- Institute of Electrical and Electronic Engineers

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

- Das, A.K., Tu, S.W., Purcell, G.P., and Musen, M.A. (1992). An extended SQL for temporal data management in clinical decision-support systems. *Proceedings of the Sixteenth Annual Symposium on Computer Applications in Medical Care* (pp. 128-132), Baltimore, MD.
- Campbell, K.E., Das, A.K., and Musen, M.A. (1994). A logical foundation for representation of clinical data. *Journal of the American Medical Informatics Association* 1(3): 218-232.
- Das, A.K., and Musen, M.A. (1994). A temporal query system for protocol-directed decision support. *Methods of Information in Medicine* 33(4): 358-370.
- Das, A.K., and Musen, M.A. (1995). A comparison of the temporal expressiveness of three database query languages. *Proceedings of the Nineteenth Annual Symposium on Computer Applications in Medical Care* (pp. 331-337), New Orleans, LA.
- Musen, M.A., Tu, S.W., Das, A.K., and Shahar, Y. (1996). EON: A component-based approach to automation of protocol-directed therapy. *Journal of the American Medical Informatics Association* 3(6): 367-388.
- Das, A.K., and Musen, M.A. (1997). A foundational model of time for heterogeneous clinical databases. *Proceedings of the AMIA Annual Fall Symposium* (pp. 106-110), Nashville, TN.
- Nguyen, J.H., Shahar, Y., Tu, S.W., Das, A.K., and Musen, M.A. (1999) Integration of temporal reasoning and temporal-data maintenance into a reusable database mediator to answer abstract, time-oriented queries: The Tzolkim system. *Journal of Intelligent Information Systems*, 13(1/2): 121-145.
- Das, A.K., and Musen, M.A. (2001). A formal method to resolve temporal mismatches in clinical databases. *Proceedings of the 2001 AMIA Annual Symposium* (pp.130-134), Washington, DC.
- Das, A.K., and Musen, M.A. (2002) Synchronus: A reusable software module for temporal integration. *Proceedings of the 2002 AMIA Annual Symposium*. (pp.195-199). San Antonio, TX.
- Hripcsak, G., Zhou, L., Parsons, S., Das, A.K., and Johnson, S.B. (2005). Modeling electronic discharge summaries as a simple temporal constraint satisfaction problem. *Journal of the American Medical Informatics Association* 12(1):55-63.
- Das, A.K., Olfson, M., Gameroff, M.J., Pilowsky, D., Blanco, C., Feder, A., Gross, R., Neria, Y., Lantigua, R., Shea, S., and Weissman, M.M. (2005). Screening for bipolar disorder in a low-income primary care practice. *Journal of the American Medical Association* 293(8):956-963.
- Weissman, M.M., Neria, Y., Das, A.K., Feder, A., Blanco, C., Lantigua, R., Shea, S., Gross, R., Gameroff, M.J., Pilowsky, D., and Olfson, M. (2005). Gender differences in PTSD among primary care patients following the World Trade Center attacks. *Gender Medicine* 2(2):76-87.
- Lewis-Fernández, R., Das, A.K., Alfonso, C., Weissman, M.M., and Olfson, M. (2005). Depression in U.S. Hispanics: diagnostic and management considerations in family practice. *Journal of the American Board of Family Practice* 18(4):282-296.
- Olfson, M., Das, A.K., Gameroff, M.J., Pilowsky, D., Feder, A., Gross, R., Lantigua, R., Shea, S., and Weissman, M.M. (2005) Bipolar depression in a low-income primary care clinic. *American Journal of Psychiatry* 162(11): 2146-2151.
- Rafiq, M.I., O'Connor, M.J., and Das, A.K. (2005). Computational method for temporal pattern discovery in biomedical genomic databases. *Proceedings of the 2005 IEEE Computational Systems Bioinformatics Conference* (pp. 362-365). Stanford, CA.
- Das, A.K., Olfson, M., McCurtis, H.L., and Weissman, M.M. (2006). Depression in African Americans: breaking barriers to detection and treatment. *Journal of Family Practice* 55(1):30-39.
- Sharda, P., Das, A.K., Cohen, T.A., and Patel, V.L. (accepted for publication) Customizing clinical narratives for the Electronic Medical Record interface using cognitive methods. *International Journal of Medical Informatics*.
- O'Connor, M.J., Shankar, R.D., and Das, A.K. (accepted for publication) An ontology-driven mediator for querying time-oriented biomedical data. *Proceedings of the 19th IEEE International Symposium on Computer-Based Medical Systems*.
- Shankar, R.D., O'Connor, M.J., Martins, S.B., and Das, A.K. (accepted for publication) An ontological framework for managing clinical trials. *Proceedings of the 19th IEEE International Symposium on Computer-Based Medical Systems*.

- 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:

PhRMA Research Foundation (PI: Das, Amarendra) 2/1/06-1/31/08
 “Knowledge-Driven Discovery of Drug Resistance Patterns in Biomedical Databases”
 Design and development of a computational system to assist scientists in discovering biologically relevant temporal associations in large databases and in comparing that knowledge with research published in the scientific literature.
 Role: PI

ITN10107-00SC (NIH Prime: NO1-AI-15416) 5/1/05-9/29/06
 University of California, San Francisco (subcontract) (UCSF PI: Bluestone)
 “Immune Tolerance Network Informatics Core”
 Design and development of an informatics core to support the current and emerging computational needs of the Immune Tolerance Network in advancing knowledge on immune tolerance mechanisms through integration and analysis of clinical trial data with gene and protein assay results.
 Role: PI

1P30AG024957-01 2/1/05-1/31/07
 National Institute of Aging (PI: Garber, Alan)
 “Center on Advancing Decision Making in Aging (CADMA)”
 Development and evaluation of decision support mechanisms for older adult patients who face difficult medical choices through integration of computer-based decision-analytic models with electronic medical records systems.
 Role: Investigator

5R01LM007894-02 2/1/04-1/31/07
 National Library of Medicine (PI: Patel, Vimla)
 “Cognition and Error Management for Critical Care”
 Development of a cognitive framework of medical errors in critical care environments (medicine, surgery and psychiatry), where decisions are often made under high stress, time pressure, and with incomplete information.
 Role: Consultant

Completed Research Support:

Eli Lilly and Company (PI: Olfson, Mark) 7/1/03-2/28/04
 “Clinical review of depression in adult Hispanics” (Unrestricted research grant)
 Review of the primary scientific literature on diagnosis and management of depression in adult Hispanic Americans.
 Role: Investigator

Eli Lilly and Company (PI: Weissman, Myrna) 7/1/03-2/28/04
 “Clinical review of depression in adult African Americans” (Unrestricted research grant)
 Systematic analysis of publications on barriers to the diagnosis and effective management of depression in adult African Americans.
 Role: Investigator