

## **CURRICULUM VITAE**

### **A. IDENTIFYING DATA:**

**NAME:** Amar K. Das, M.D.  
**ADDRESS:** Stanford Medical Informatics  
MSOB X233, 251 Campus Drive  
Stanford, CA 94305  
E-mail address: das@stanford.edu

### **B. ACADEMIC HISTORY:**

#### **B-1 EDUCATION:**

1989 BA Anthropology and the Program in Mathematical Methods in the Social  
Sciences (with Distinction), Northwestern University  
1997 MD Stanford University  
2002 PhD Medical Information Sciences, Stanford University

#### **LICENSURE AND CERTIFICATION:**

1998 New York State License to Practice Medicine and Surgery

#### **B-2 SCHOLARSHIPS AND 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 Award, 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  
(formerly Falk Fellowship Award)  
2001 Van Ameringen Foundation/American Psychiatric Association Health  
Services Research Scholar  
2001 Finalist, Student Paper Competition, 2001 American Medical Informatics  
Association Annual Symposium, Washington, DC  
2001 Alumni Award for Excellence in Administrative Psychiatry, Department  
of Psychiatry, Columbia University

#### **B-3 POSTDOCTORAL AND RESIDENCY TRAINING:**

1997-2001 Resident in Psychiatry, Research Track, Columbia University/NYS  
Psychiatric Institute  
2001-2004 Postdoctoral Clinical Fellow in Affective, Anxiety, and Related Disorders  
(NIMH Fellowship), Department of Psychiatry, Columbia University

**B-4 BOARD ELIGIBILITY:**

Board Certified, American Board of Psychiatry & Neurology

**B-5 OTHER STUDY AND RESEARCH OPPORTUNITIES:**

- 1988 Research Assistant, Department of Neurology, Michael Reese Hospital, Chicago, IL  
Data analysis of clinical outcomes in the Stroke Databank Development of a multivariate statistical model to predict ambulation after stroke
- 1990-1991 Research Assistant, Department of Obstetrics and Gynecology, Stanford University, Stanford, CA  
Development of decision-analytic methods for infertility therapy  
Measurement of patient preferences in infertility therapy
- 1991-1997 Predoctoral Fellow and Graduate Student, Section on Medical Informatics, Stanford University, Stanford, CA  
Research on temporal data management methods for clinical information systems  
Design of a modular decision-support software architecture for protocol-based care
- 1999-2001 Research-Track Resident, Bipolar Disorders Research Clinic, NYS Psychiatric Institute, New York, NY  
Development and validation of a new rating instrument (daily mood chart) for bipolar disorders  
Evaluation of the effects of menstrual hormones on mood ratings for women with bipolar disorders
- 2001-2004 Postdoctoral Fellow, Division of Clinical and Genetic Epidemiology, Department of Psychiatry, Columbia University, New York, NY  
Epidemiologic research on psychiatric disorders in primary care, including post-traumatic stress symptoms following the World Trade Center disaster  
Data analysis of health-services utilization of primary care patients with psychiatric disorders using administrative, clinical, and research databases

**C. EMPLOYMENT HISTORY:**

**ACADEMIC AND NON-ACADEMIC APPOINTMENTS:**

- 1991 Teaching assistant, *Public Decision Making Regarding Human Health* course, Department of Health Research and Policy, Stanford University, Stanford, CA
- 1992 Teaching assistant, *Computer Applications in Medicine* course, Medical Information Sciences Program, Stanford University, Stanford, CA
- 2000-2001 Chief Resident in Psychiatry, Columbia University/NYS Psychiatric Institute
- 2001-2003 Resident supervisor, Residency Training Program, Department of Psychiatry, Columbia University, New York, NY

2001-2003 Assistant Attending Psychiatrist, New York Presbyterian Hospital, New York, NY  
2001-2004 Attending Psychiatrist, NYS Presbyterian Institute, New York, NY  
2004- Assistant Professor, Department of Medicine (Medical Informatics), Stanford University, Stanford, CA  
2004- Assistant Professor, Department of Psychiatry and Behavioral Sciences, Stanford University, Stanford, CA  
2004- Course Director, *Introduction to Biomedical Informatics: System Design*, Biomedical Informatics Program, Stanford University, Stanford, CA

**D. PUBLIC AND PROFESSIONAL SERVICE:**

1999-2003 Project for Psychiatric Outreach to the Homeless  
2005-2006 Poster Committee, American Medical Informatics Association  
2006 Program Committee, Computational Systems Bioinformatics Conference  
2006 Meetings Committee, American Medical Informatics Association

**OTHER RESEARCH RELATED ACTIVITIES:**

2002 Section Editor, "Practicing Guidelines," *TEN – Trends in Evidence-Based Neuropsychiatry* (formerly *The Economics of Neuroscience*)

**E. POST-DEGREE HONORS AND AWARDS:**

**HONORS AND AWARDS:**

**MEMBERSHIPS:**

1990 – present American Medical Informatics Association (AMIA)  
1999 – present American Psychiatric Association (APA)  
2005 – present Institute of Electrical and Electronic Engineers (IEEE)  
2005 – present Association of Computing Machinery (ACM)

**CURRENT GRANTS AND AWARDS:**

2006 Pharmaceutical Research and Manufacturers of America (PhRMA)  
Research Foundation Starter Grant

**F. BIBLIOGRAPHIC INFORMATION**

**F-1 PEER-REVIEWED JOURNAL ARTICLES: (14 of 14)**

1. **Das, A.K.**, and Musen, M.A. A temporal query system for protocol-directed decision support. *Methods of Information in Medicine* 33(4):358-370, 1994. Reprinted in *The Yearbook of Medical Informatics* (eds. J.H. van Bommel and A.T. McCray), pp. 494-506, Stuttgart: Schattauer, 1995.
2. Campbell, K.E., **Das, A.K.**, and Musen, M.A. A logical foundation for representation of clinical data. *Journal of the American Medical Informatics Association* 1(3):218-232, 1994. Reprinted

in *The Yearbook of Medical Informatics* (eds. J.H. van Bommel and A.T. McCray), pp. 205-219, Stuttgart: Schattauer, 1995.

3. Musen, M.A., Tu, S.W., **Das, A.K.**, and Shahar, Y. EON: A component-based approach to automation of protocol-directed therapy. *Journal of the American Medical Informatics Association* 3(6):367-388, 1996.
4. Nguyen, J.H., Shahar, Y., Tu, S.W., **Das, A.K.**, and Musen, M.A. Integration of temporal reasoning and temporal-data maintenance into a reusable database mediator to answer abstract, time-oriented queries: The Tzolkin system. *Journal of Intelligent Information Systems*, 13(1/2):121-145, 1999.
5. **Das, A.K.** Computers in psychiatry: A review of past programs and an analysis of historical trends. *Psychiatric Quarterly* 73(4):351-65, 2002.
6. Hripcsak, G., Zhou, L., Parsons, S., **Das, A.K.**, and Johnson, S.B. Modeling electronic discharge summaries as a simple temporal constraint satisfaction problem. *Journal of the American Medical Informatics Association* 12(1):55-63, 2005.
7. **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. Screening for bipolar disorder in a low-income primary care practice. *Journal of the American Medical Association* 293(8):956-963, 2005.
8. 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. Gender differences in PTSD among primary care patients following the World Trade Center attacks. *Gender Medicine* 2(2):76-87, 2005
9. Lewis-Fernández, R., **Das, A.K.**, Alfonso, C., Weissman, M.M., and Olfson, M. Depression in U.S. Hispanics: diagnostic and management considerations in family practice. *Journal of the American Board of Family Practice* 18(4):282-296, 2005.
10. Olfson, M., **Das, A.K.**, Gameroff, M.J., Pilowsky, D., Feder, A., Gross, R., Lantigua, R., Shea, S., and Weissman, M.M. Bipolar depression in a low-income primary care clinic. *American Journal of Psychiatry* 162(11):2146-2151, 2005.
11. **Das, A.K.**, Olfson, M., McCurtis, H.L., and Weissman, M.M. Depression in African Americans: breaking barriers to detection and treatment. *Journal of Family Practice* 55(1):30-39, 2006.
12. Sharda, P., **Das, A.K.**, Cohen, T.A., and Patel, V.L. Customizing clinical narratives for the Electronic Medical Record interface using cognitive methods. *International Journal of Medical Informatics* 75(5):346-368, 2006.
13. Neria, Y., Gross, R., Olfson, M., Gameroff, M.J., **Das, A.**, Pilowsky, D., Feder, A., Blanco, C., Marshall, R.D., Lantigua, R., Shea, S., and Weissman, M.M. Screening for Posttraumatic Stress Disorder in a primary care practice one year after 9/11 Attacks. *General Hospital Psychiatry* 28(3):213-222, 2006.
14. O'Connor, M.J., **Das, A.K.** A knowledge-based mediator for temporal pattern discovery in biomedical databases. *IEEE Transactions on Information Technology in Biomedicine* (under revision).

## PEER-REVIEWED PROCEEDING ARTICLES: (20 of 20)

1. **Das, A.K.**, Tu, S.W., Purcell, G.P., and Musen, M.A. 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, 1992.
2. **Das, A.K.**, Shahar, Y., Tu, S.W., and Musen, M.A. A temporal-abstraction mediator for protocol-based decision support. *Proceedings of the Eighteenth Annual Symposium on Computer Applications in Medical Care*, pp. 320-324, Washington, DC, 1994.
3. Shahar, Y., **Das, A.K.**, Tu, S.W., and Musen, M.A. Knowledge-based temporal abstraction for diabetic monitoring. *Proceedings of the Eighteenth Annual Symposium on Computer Applications in Medical Care*, pp. 697-701, Washington, DC, 1994.
4. Musen, M.A., Tu, S.W., **Das, A.K.**, and Shahar, Y. A component-based architecture for automation of protocol-directed therapy. *Fifth Conference on Artificial Intelligence in Medicine Europe, AIME '95*, pp. 3-13, Pavia, Italy, 1995.
5. Shahar, Y., **Das, A.K.**, Tu, S.W., Kraemer, F.B., Basso, L.V., and Musen, M.A. Knowledge-based temporal abstraction in diabetes therapy. *Eighth World Congress on Medical Informatics, MEDINFO '95*, pp. 852-856, Vancouver, Canada, 1995.
6. **Das, A.K.**, and Musen, M.A. 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, 1995.
7. **Das, A.K.**, and Musen, M.A. A foundational model of time for heterogeneous clinical databases. *Proceedings of the 1997 AMIA Annual Symposium*, pp. 106-110, Nashville, TN, 1997.
8. Nguyen, J.H., Shahar, Y., Tu, S.W., **Das, A.K.**, and Musen, M.A. A temporal database mediator for protocol-based decision support. *Proceedings of the 1997 AMIA Annual Fall Symposium*, pp. 298-302, Nashville, TN, 1997.
9. **Das, A.K.**, and Musen, M.A. A formal method to resolve temporal mismatches in clinical databases. *Proceedings of the 2001 AMIA Annual Symposium*, pp.130-134, Washington, DC, 2001.
10. **Das, A.K.**, Gameroff, M., Fuentes, M., Olfson, M., and Weissman, M.M. Prevalence and characteristics of depression among Dominican American primary care attendants. *Critical Research Issues in Latino Mental Health Conference*, Princeton, NJ, 2002.
11. **Das, A.K.**, and Musen, M.A. Synchronus: A reusable software module for temporal integration. *Proceedings of the 2002 AMIA Annual Symposium*, pp. 195-199, San Antonio, TX, 2002.

12. Sharda, P., **Das, A.K.** and Patel, V.L. Specifying design criteria for electronic medical records using cognitive framework. *Proceedings of the 2003 AMIA Annual Symposium*, pp. 594-598, Washington DC, 2003.
13. Rafiq, M.I., O'Connor, M.J., and **Das, A.K.** Computational method for temporal pattern discovery in biomedical genomic databases. *Proceedings of the 2005 IEEE Computational Systems Bioinformatics Conference*, pp. 362-365. Stanford, CA, 2005.
14. O'Connor, M.J., Shankar, R.D., and **Das, A.K.** An ontology-driven mediator for querying time-oriented biomedical data. *Proceedings of the 19<sup>th</sup> IEEE International Symposium on Computer-Based Medical Systems* (in press).
15. Shankar, R.D., O'Connor, M.J., Martins, S.B., Parrish, D., and **Das, A.K.** A knowledge-based system for managing complex clinical trials. *Proceedings of the 19<sup>th</sup> IEEE International Symposium on Computer-Based Medical Systems* (in press).
16. Lin, R.S., Rhee, S.Y., Shafer, R.W., and **Das, A.K.** A combined data mining approach for infrequent events: analyzing HIV mutation changes based on treatment history. *Proceedings of the 2006 LSS Computational Systems Bioinformatics Conference* (in press).
17. Zeiger, R., Johnson, C.J., **Das, A.K.**, and Goldstein, M.K. Task analysis of writing hospital admission orders: evidence of a problem-based approach. *Proceedings of the 2006 AMIA Annual Symposium* (submitted).
18. **Das, A.K.**, Ahmed, B.A., Garten, Y., Robin, J., and Goldstein, M.K. Knowledge-based method for building patient decision-analytic tools. *Proceedings of the 2006 AMIA Annual Symposium* (submitted).
19. O'Connor, M.J., Shankar, R.D., and **Das, A.K.** Temporal constraint specification for protocol tracking applications using Semantic Web technologies. *Proceedings of the 2006 AMIA Annual Symposium* (submitted).
20. Shankar, R.D., O'Connor, M.J., Martins, S.B., Parrish, D., and **Das, A.K.** Epoch: an ontological framework to support clinical trials management. *Proceedings of the 2006 AMIA Annual Symposium* (submitted).

## **F-2 NON-PEER-REVIEWED JOURNAL ARTICLES (3 of 3):**

1. **Das, A.K.**, Gross, R., and Weissman, M.M. Screening for depression in adults. *Annals of Internal Medicine* 138(9):767, 2003.
2. Gross, R., **Das, A.K.**, and Weissman, M.M. Bipolar disorder. *New England Journal of Medicine* 351(23):2454-5, 2004.

3. Adlassnig, K.P., Combi, C., **Das, A.K.**, Keravnou, E., and Pozzi, G. Temporal representation and reasoning in medicine: research directions and challenges. *Artificial Intelligence in Medicine* (in press).

**F-3 BOOKS: N/A**

**F-4 BOOK CHAPTERS (1 of 1):**

1. Neria, Y., Gross, R., Olfson, M., Gameroff, M.J., **Das, A.**, Feder, A., Lantigua, R., Shea, S., and Weissman, M.M. Screening for PTSD in low-income, predominantly Hispanic, primary care patients in New York City one year after 9/11 Attacks. In Y. Neria, R. Gross, R. Marshall. (Eds.), *9/11: Mental Health in the Wake of Terrorist Attacks*. Cambridge University Press (in press).

**F-5 BOOK REVIEWS: N/A**

**F-6 ABSTRACTS: (4 of 15)**

1. **Das, A.K.** Technological innovations for successful aging. *Gerontologic Society of America's 59<sup>th</sup> Annual Scientific Meeting* (accepted).
2. Lin, R.S., Rhee, S.Y., Shafer, R.W., and **Das, A.K.** Prediction of HIV mutation changes based on treatment history. *Proceedings of the 2006 AMIA Annual Symposium* (submitted).
3. Narayanan, P., O'Connor, M.J., and **Das, A.K.** Ontology-driven mapping of temporal data in biomedical databases. *Proceedings of the 2006 AMIA Annual Symposium* (submitted).
4. Chauhan, V., O'Connor, M.J., and **Das, A.K.** A dynamic distributed architecture for temporal data abstraction. *Proceedings of the 2006 AMIA Annual Symposium* (submitted).

**F-7 INVITED LECTURES AND PRESENTATIONS (6 of 13):**

1. Temporal Mediation: A Method to Bridge the Complexity of Time in Clinical Decision Support. *Medical Informatics Research Seminar, Department of Medical Informatics, Columbia University, New York, NY, September 13, 2001.*
2. Mining Patterns and Outcomes of Care in Clinical and Administrative Databases. *Center for Health Care Evaluation Forum, VA Palo Alto Health Care System, Menlo Park, CA, August 10, 2004.*
3. The Investigators, the Longitudinal Data Set, and the Search for Knowledge: An Informatics Fable. *Biostatistics Seminar, Stanford University, Stanford, CA, May 5, 2005.*
4. What Biomedical Researchers Need Now: Smart Databases for Collaborative Work. *GRECC Seminar, VA Palo Alto Health Care System, Palo Alto, CA, February 1, 2006.*
5. Incorporating Patient Preferences into Health Decision Aids. *CHP/PCOR Seminar, Stanford University, Stanford, CA, March 10, 2006.*

6. An Ontologic Framework for Trials Management at ITN. *NIAID Ontology Workshop, Gaithersburg, Maryland, March 22, 2006.*