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## **DANIAR HUSSAIN**

### **Curriculum Vitae (Continued from Resume)**

#### **Publications**

Hussain, Daniar, Andrew Werner, and Neil Desai. *The personal internetworked notary and guardian (PING): The policy implications of a patient-controlled electronic medical record*. Published in MIT OpenCourseWare, Course 6.805J exemplary class paper. Available at <<http://www-swiss.ai.mit.edu/6.805/student-papers/spring02-papers/student-papers.html>> May 16, 2002.

Hussain, Daniar, and Steven Malliaris. *Evolutionary techniques applied to hashing*. Genetic and Evolutionary Computation Conference Proceedings. Las Vegas, NV: July 2000.

#### **Conference Presentations**

Hussain, Daniar. *Prototype for next generation mobile access to satellite data, on earth and mars*. Fourth Mars Society Convention, Stanford University, CA: August 26, 2001.

Hussain, Daniar. *The NASA Academy*. Fourth Mars Society Convention, Stanford University, CA: August 24, 2001.

Hussain, Daniar. *Cross products in higher dimensional vector spaces*. Eighteenth Undergraduate Mathematics Conference, Rose-Hulman Institute of Technology, IN: March 17, 2000.

Hussain, Daniar. *Lecture on Mars exploration*. Yuri's Space Night Conference, MIT Student Center, MA: April 12, 2000.

Hussain, Daniar. *An environmentalist approach to space exploration* [moderator of panel discussion]. Third Mars Society Convention, Toronto, Canada: August 2000.

#### **Unpublished Papers and Oral Presentations**<sup>§</sup>

Yamashita, Tokumasa, Julee Hong, and Daniar Hussain. *Optimizing gp96 production in pH-stressed MethA cells grown in bioreactors*. Lab presentation on May 14, 2003 for MIT Biological Engineering Lab (Prof. Jean-Francois Hamel).

Hussain, Daniar. *The cardiovascular system in space*. Presentation on May 2, 2003 for MIT class Quantitative Physiology of Organ Transport Systems (Prof. Roger Mark).

Hussain, Daniar, Hana Oh, and Evangeline Tzatzalos. *Examining knockdown of p53, pEGFP, ATM, ATR, Exo1, and AAG gene expression using siRNA*. Lab report on April 28, 2003 for MIT Biological Engineering Lab (Prof. Leona Samson).

Hussain, Daniar, and Marisa Hori. *Evidence for homologous recombination in mammalian cells using green fluorescence and flow cytometry*. Lab report on March 31, 2003 for MIT Biological Engineering Lab (Prof. Bevin Engelward).

Yu, Tamara, Daniar Hussain, and Jenny Shu. *A non-invasive method for hemodynamic monitoring*. Final group project on December 18, 2002 for MIT class Bioelectronics Project Laboratory (Prof. Stephen Burns).

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<sup>§</sup> Available upon request from author.

Hussain, Daniar, and Victor Sai. *Increasing potassium conductance increases the threshold amplitude in the Hodgkin-Huxley model*. Presentation on Nov. 26, 2002 for MIT class Quantitative Physiology of Cells and Tissues (Prof. Dennis Friemann).

Hussain, Daniar, and Rob Jackson. *Implementing No Child Left Behind: A strategic assessment*. Presentation on Nov. 21, 2002 at JFK School of Government for class on economics of education reform (Prof. Brian Jacob).

### **Press Coverage**

Silverstein, Ken. *The radioactive boy scout: The true story of a boy and his backyard nuclear reactor*. Random House, March 2004, p 136.

Helmuth, Laura. *Science education: Science fair pump up the rewards of talent*. Science 1999, vol 286: p 2056.

Sojak, Frank. *Student, pal sharing \$90,000 scholarship*. Tribune Democrat. Dec. 7, 1999, p A3.

Heinzmann, David. *A scholarship won, thanks to computer*. Chicago Tribune. Dec. 7, 1999, pp 2-3.

*Research by undergraduate mathematics students featured at Rose-Hulman conference*.

The Rose Thorn, vol. 36, no. 19. Terre Haute, IN: March 16, 2001.

Chicago Sun Times. November 2, 1999.

Sojak, Frank. *Keyboard King: local senior outthinks competition*. The Tribune Democrat. Nov. 1, 1999, p A3.

Spice, Byron. *Siemens resurrects Westinghouse name in new science competition*.

Pittsburgh Post Gazette. Oct. 31, 1999, vol. 73, no. 91, p A8.

Siemens corporate advertisement. *Innovative thinking. Problem solving skills. Scientific reasoning*. USA Today, Dec. 17, 1999, p 13A.

Thariath, Abraham. *Computer project helps win Westinghouse prize*. India Abroad. Dec. 17, 1999, vol. 30, no. 12.

*Washington scientific competition: Bangladeshi Daniar Hussain's incomparable success*.

Thikana, Dec. 24, 1999, pp 57, 68.

*Sylheti student's success in American scientific competition*. The Daily Jalalabad, April 1, 2000.

*Washington science competition Bangladeshi Daniar Hussain's incomparable success*.

Daily Jugaveri, April 2, 2000, p 3.

### **Professional Memberships**

Institute of Electrical and Electronics Engineers (IEEE)

Mathematical Association of America (MAA)

American Mathematical Society (AMS)

American Association for the Advancement of Science (AAAS)

International Mars Society

### **Standardized Test Scores**

SAT I Math 750

SAT I Verbal 690

SAT II Writing 790

SAT II Chemistry 800

SAT II Math/Calculus 800

## References

- Professor John J. Donovan**, Chairman  
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**Hobbies**

Sailing, swimming, sculling, ice skating, biking, hiking

**Community Service**

**Richland Senior High School**, Johnstown, PA. (Dec.-Jan. 2001)

Developed curriculum and taught physics and astronomy to 9-12 grade science students.

Aimed to inspire students in scientific research and space exploration.