



Parvati Dev

Email: parvati.dev@stanford.edu

Profile: http://med.stanford.edu/profiles/Parvati_Dev/

Alternate Contact:

Name: Mari Kieft

Title: Administrator

Email: mbkieft@stanford.edu

Phone: 650-725-6630



Appointments

Appointment	Organization
Sr Research Engineer (PI Waiver)	Information Resources & Technology - Learning Technology/SUMMIT

Graduate & Fellowship Program Affiliations

Biomedical Informatics;

 CV available online

 Biosketch available online

Honors & Awards

Title	Organization	Date(s)
Fellow	American College of Medical Informatics	1996-present
Priscilla Mayden Speaker	University of Utah	2001
Satava Award	Medicine Meets Virtual Reality	2002
High Performance Research Applications (iAnatomy)	CENIC	2007

Administrative Appointments

Title	Organization	Start Year	Start Year
Director	SUMMIT	1990	2007
Associate Dean, Learning Technologies	IRT	2002	2004
Member, Application and Middleware Strategy Council	Internet2	2007	-
Member, Advisory Board	iBharti	2007	-
Member, Executive Committee	HealthGrid.US	2006	-
Member, Advisory Board	CTIS, Inc	2005	-
Advisor	Forterra Systems, Inc	2005	-
Member, Executive Committee	Consortium for Immersive and Simulation-based Learning	2004	2007
Member, Advisory Council	Course Management Systems, Stanford University	2004	2006
Chair, Tutorial Program	MedInfo 2004	2003	2004
Member, Strategy Council	Internet2	2002	2007
President, Board of Directors	IIT Foundation	2002	2004
Member, Scientific Program Committee	American Medical Informatics Association	2002	2002
Member, Advisory Board	Women's Health @ Stanford	2001	2007
Member, Health Sciences Leadership Group	Internet2	2000	-
Member, Education Committee	American Medical Informatics Association	2000	2001
Member, Working Group Steering Committee	American Medical Informatics Association	2000	2001
Member, Board of Directors	IIT Foundation	2000	-

Member, Advisory Board, IAIMS Project	Univ. of Pittsburgh Medical Center	1998	2003
Member, President's Commission on Technology in Teaching and Learning	Stanford University	1996	1997
Member, Advisory Board, Nutrition in Medicine	Univ. of North Carolina, Chapel Hill	1994	-

Professional Education

Degree	Awarding Institution	Field of Study	Graduation Date
B.Tech(Hons)	Indian Institute of Technology	Electronics Engineering	1968
MS	Stanford University	Electrical Engineering	1969
PhD	Stanford University	Electrical Engineering	1975

Web Site Links

Research/Lab website: <http://summit.stanford.edu/>

Research Interests

My interest is innovation in healthcare education through the use of technology. Specific topics of interest include: simulation-based learning using virtual patients, virtual surgery, or virtual medical worlds; learning through games; learning using visualization, 3D imaging, stereo viewing, or high definition video; and networked collaboration systems using very high bandwidths (1 gigabyte/second or higher).

Community and International Work

- MedNet

Publications

1. Heinrichs WL, Youngblood P, Harter PM, Dev P "Simulation for Team Training and Assessment: Case Studies of Online Training with Virtual Worlds." *World J Surg.* 2008;
2. Heinrichs WL, Lukoff B, Youngblood P, Dev P, Shavelson R, Hasson HM, Satava RM, McDougall EM, Wetter PA "Criterion-based training with surgical simulators: proficiency of experienced surgeons." *JSLs.* 2007 Jul-Sep; 11: 3: 273-302.
3. Youngblood P, Hedman L, Creutzfeld J, Fellander-Tsai L, Stengard K, Hansen K, Dev P, Srivastava S, Kusumoto L, Hendrick A, Heinrichs WL "Virtual Worlds for Teaching the New CPR to High School Students." *Stud Health Technol Inform.* 2007; 125: 515-9.
4. **Dev P, Youngblood P, Heinrichs WL, Kusumoto L "Virtual worlds and team training." *Anesthesiol Clin.* 2007; 25: 2: 321-36.**
5. **Dev P, Srivastava S, Senger S "Collaborative learning using Internet2 and remote collections of stereo dissection images." *Clin Anat.* 2006;**
6. Rubin DL, Dameron O, Bashir Y, Grossman D, Dev P, Musen MA "Using ontologies linked with geometric models to reason about penetrating injuries." *Artif Intell Med.* 2006;
7. Wadey VM, Tang ET, Abelseh G, Dev P, Olshen RA, Walker D "Canadian Multidisciplinary Core Curriculum for Musculoskeletal Health." *J Rheumatol.* 2006;
8. Taylor CB, Bryson S, Luce KH, Cuning D, Doyle AC, Abascal LB, Rockwell R, Dev P, Winzelberg AJ, Wilfley DE "Prevention of eating disorders in at-risk college-age women." *Arch Gen Psychiatry.* 2006; 63: 8: 881-8.
9. Luce KH, Osborne MI, Winzelberg AJ, Das S, Abascal LB, Celio AA, Wilfley DE, Stevenson D, Dev P, Taylor CB "Application of an algorithm-driven protocol to simultaneously provide universal and targeted prevention programs." *Int J Eat Disord.* 2005; 37: 3: 220-6.
10. Youngblood PL, Srivastava S, Curet M, Heinrichs WL, Dev P, Wren SM "Comparison of training on two laparoscopic simulators and assessment of skills transfer to surgical performance." *J Am Coll Surg.* 2005; 200: 4: 546-51.
11. Rubin DL, Bashir Y, Grossman D, Dev P, Musen MA "Using an ontology of human anatomy to inform reasoning with geometric models." *Stud Health Technol Inform.* 2005; 111: 429-35.
12. Montgomery K, Burgess L, Dev P, Heinrichs L "Project hydra - a new paradigm of internet-based surgical simulation." *Stud Health Technol Inform.* 2005; 119: 399-403.
13. Youngblood P, Dev P "A framework for evaluating new learning technologies in medicine." *AMIA Annu Symp*

Proc. 2005; 1163.

14. Brutlag P, Dev P, Podchiyska T "Building an internationalized content delivery architecture: lessons learned." *AMIA Annu Symp Proc.* 2005; 906.
15. Dev P, Senger S "The visible human and digital anatomy learning initiative." *Stud Health Technol Inform.* 2005; 111: 108-14.
16. Menon AS, Moffett S, Enriquez M, Martinez MM, Dev P, Grappone T "Audience response made easy: using personal digital assistants as a classroom polling tool." *J Am Med Inform Assoc.* 2004 May-Jun; 11: 3: 217-20.
17. Abascal L, Bruning Brown J, Winzelberg AJ, Dev P, Taylor CB "Combining universal and targeted prevention for school-based eating disorder programs." *Int J Eat Disord.* 2004; 35: 1: 1-9.
18. Heinrichs WL, Srivastava S, Montgomery K, Dev P "The fundamental manipulations of surgery: a structured vocabulary for designing surgical curricula and simulators." *J Am Assoc Gynecol Laparosc.* 2004; 11: 4: 450-6.
19. Rubin D, Bashir Y, Grossman D, Dev P, Musen M "Linking ontologies with three-dimensional models of anatomy to predict the effects of penetrating injuries." *Conf Proc IEEE Eng Med Biol Soc.* 2004; 5: 3128-31.
20. Heinrichs WL, Srivastava S, Dev P, Chase RA "LUCY: a 3-D pelvic model for surgical simulation." *J Am Assoc Gynecol Laparosc.* 2004; 11: 3: 326-31.
21. Winzelberg AJ, Classen C, Alpers GW, Roberts H, Koopman C, Adams RE, Ernst H, Dev P, Taylor CB "Evaluation of an internet support group for women with primary breast cancer." *Cancer.* 2003; 97: 5: 1164-73.
22. Brutlag P, Fitzgerald B, Mort M, Stringer J, Steinfeld R, McArthur A, Dev P, Cheyne J "The Advanced Immunization Management (AIM) e-Learning Project." *AMIA Annu Symp Proc.* 2003; 799.
23. Dev P, Montgomery K, Senger S, Heinrichs WL, Srivastava S, Waldron K "Simulated medical learning environments on the Internet." *J Am Med Inform Assoc.* 2002 Sep-Oct; 9: 5: 437-47.
24. Durack JC, Chao CC, Stevenson D, Andriole KP, Dev P "The Stanford MediaServer Project: strategies for building a flexible digital media platform to support biomedical education and research." *Proc AMIA Symp.* 2002; 225-9.
25. Celio AA, Winzelberg AJ, Dev P, Taylor CB "Improving Compliance in On-line, Structured Self-help Programs: Evaluation of an Eating Disorder Prevention Program." *J Psychiatr Pract.* 2002; 8: 1: 14-20.
26. Dev P, Harris D, Gutierrez D, Shah A, Senger S "End-to-end performance measurement of Internet based medical applications." *Proc AMIA Symp.* 2002; 205-9.
27. Dev P, Heinrichs WL, Srivastava S, Montgomery KN, Senger S, Temkin B, Hasser C, Latombe JC, Heegaard J, Youngblood P, Friedman CP, Waldron K "Simulated learning environments in anatomy and surgery delivered via the next generation internet." *Medinfo.* 2001; 10: Pt 2: 1014-8.
28. Pugh CM, Srivastava S, Shavelson R, Walker D, Cotner T, Scarloss B, Kuo M, Rawn C, Dev P, Krummel TH, Heinrichs LH "The effect of simulator use on learning and self-assessment: the case of Stanford University's E-Pelvis simulator." *Stud Health Technol Inform.* 2001; 81: 396-400.
29. Dev P, Tsai MC, Strasberg H, Rindfleisch TC, Melmon KL "SHINE: helping tame the wilds of CME." *MD Comput.* 2000 Nov-Dec; 17: 6: 15-8.
30. Dev P, Rindfleisch TC, Kush SJ, Stringer JR "An analysis of technology usage for streaming digital video in support of a preclinical curriculum." *Proc AMIA Symp.* 2000; 180-4.
31. Celio AA, Winzelberg AJ, Wilfley DE, Eppstein-Herald D, Springer EA, Dev P, Taylor CB "Reducing risk factors for eating disorders: comparison of an Internet- and a classroom-delivered psychoeducational program." *J Consult Clin Psychol.* 2000; 68: 4: 650-7.
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33. Godin P, Hubbs R, Woods B, Tsai M, Nag D, Rindfleisch T, Dev P, Melmon KL "New paradigms for medical decision support and education: the Stanford Health Information Network for Education." *Top Health Inf Manage.* 1999; 20: 2: 1-14.
34. Dev P, Winzelberg AJ, Celio A, Taylor CB "Student bodies: psycho-education communities on the web." *Proc AMIA Symp.* 1999; 510-4.
35. Winzelberg AJ, Taylor CB, Sharpe T, Eldredge KL, Dev P, Constantinou PS "Evaluation of a computer-mediated eating disorder intervention program." *Int J Eat Disord.* 1998; 24: 4: 339-49.
36. Dev P, Pichumani R, Walker D, Heinrichs WL, Karadi C, Lorie W "Formative design of a virtual learning

- environment." *Stud Health Technol Inform.* 1998; 50: 392-8.
37. Heinrichs WL, Pichumani R, Mather R, Dev P "Information frames: a new multimedia approach to Web-based learning of biology and medicine." *Stud Health Technol Inform.* 1998; 50: 370-2.
 38. Dev P, "To reach and teach with the Internet." *JAMA.* 1997; 278: 21: 1789.
 39. Hubbs PR, Tsai M, Dev P, Godin P, Olyarchuk JG, Nag D, Linder G, Rindfleisch TC, Melmon KL "The Stanford Health Information Network for Education: integrated information for decision making and learning." *Proc AMIA Annu Fall Symp.* 1997; 505-8.
 40. Dev P, Mather R "A multimedia and Internet program to present clinical cases." *Acad Med.* 1996; 71: 5: 523-4.
 41. Constantinou P, Mather R, Dev P "The interactive image tool: adding structure to images." *Proc Annu Symp Comput Appl Med Care.* 1995; 508-11.
 42. Felciano RM, Dev P "Multimedia clinical simulation based on patient records: authoring, user interface, pedagogy." *Proc Annu Symp Comput Appl Med Care.* 1994; 59-63.
 43. Constantinou P, Daane S, Dev P "Transforming information for computer-aided instruction: using a Socratic Dialogue method to teach gross anatomy." *Proc Annu Symp Comput Appl Med Care.* 1994; 1043.
 44. Pradham M, Dev P "Conceptual change and computer-assisted instruction." *Proc Annu Symp Comput Appl Med Care.* 1993; 786-90.
 45. Dev P, Friedman C, Dafoe B, Felciano R "Testing spatial understanding of anatomy." *Proc Annu Symp Comput Appl Med Care.* 1992; 804-5.
 46. Perper EJ, Felciano R, Dev P "Real problems: a layered approach to constructing a patient simulation." *Proc Annu Symp Comput Appl Med Care.* 1992; 707-11.

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