

Jiang Bian, Ph.D.

University of Arkansas for Medical Sciences.
4301 W. Markham St.
Little Rock, AR 72205
(501) 773 9074
jbian@uams.edu

Education

Ph.D. in Integrated Computing, University of Arkansas at Little Rock, Little Rock, Arkansas	2010
M.S. in Computer Science, University of Arkansas at Little Rock, Little Rock, Arkansas	2007
B.S. in Architectural Environment & Equipment Engineering, Tongji University, Shanghai, China	2005

Current Position

Assistant Professor Division of Biomedical Informatics University of Arkansas for Medical Sciences Little Rock, AR	2011 – present
Bioinformatics Manager/Technical Lead Research Programs, IT University of Arkansas for Medical Sciences Little Rock, AR	2006 – present
Adjunct Graduate Faculty Computer Science Department University of Arkansas at Little Rock Little Rock, AR	2011 – present

Employment

Assistant Professor Biomedical Informatics, College of Medicine, UAMS Little Rock, AR	2010 – present
Bioinformatics Manager/Technical Lead Research Programs, Information Technology, UAMS Little Rock, AR	2006 – present
Senior Research Staff Project: “Container Communities for International Cargo Security”, funded by National Science Foundation under CNS-0619069, EPS-0701890 and OISE 0729792 Department of Computer Science, University of Arkansas at Little Rock, Little Rock, AR	2008 – 2009
Senior Research Staff Project: “Role-based Secure Group Communication Framework using Polymorphic Encryption and Decryption”, funded by Department of Defense grant #H98230-07-C-0403 Department of Computer Science, University of Arkansas at Little Rock, Little Rock, AR	2007 – 2008

Research Assistant
Department of Computer Science, University of Arkansas at Little Rock,
Little Rock, AR 2006 – 2007

Professional Memberships and Activities

Member, Association for Computing Machinery 2010
Member, IEEE 2010

Journal Reviewers

IEEE Transactions on Systems, Man, and Cybernetics, Part C: Applications & Reviews
ACI: Applied Clinical Informatics
Journal of Biomedical Informatics – Elsevier
Journal of Network and Computer Applications – Elsevier
Transaction on Storage – ACM
Computers and Electrical Engineering – Elsevier
Journal of Network and Systems Management – Springer
IIE Transactions on Healthcare Systems Engineering – Taylor & Francis

Conference Reviewers

AMIA Annual Symposium 2011
Security in Computers, Networking and Communication SCNC 2011
IEEE GLOBECOM 2011
ICC 2012
HASE 2011

Honors and Awards

Outstanding Ph.D. Graduate, College of Engineering and Information Technology, UALR 2010 - 2011
Outstanding Ph.D. Student, Department of Computer Science, EIT, UALR 2010 - 2011
caBIG Delivering Results Award, caBIG, NCI July 21st, 2009
Most Promising Ph.D. Research Student Award, Department of Computer Science, EIT, UALR 2008 – 2009
Most Promising Ph.D. Research Student Award, Department of Computer Science, EIT, UALR 2007 – 2008
M.S. Academic Achievement Award, Department of Computer Science, EIT, UALR 2006 – 2007
M.S. Service Achievement Award, Department of Computer Science, EIT, UALR 2006 – 2007

Grants and Contract Awards

Title of Project: "CRCNS: Dynamic Analysis of Addiction" Pending
Role: Co-PI
Funding Agency: NSF/NIH
Program: CRCNS: Collaborative Research in Computational Neuroscience

Publications

Subramanian, Vimalathithan; Seker, Remzi; **Bian, Jiang** and Kanaskar, Nitin; 2011
"Collaborations, Mergers, Acquisitions, and Security Policy Conflict Analysis";
(Extended Abstract), 7th Annual Cyber Security and Information Intelligence
Research Workshop, CSIRW11. 12-14, October 2011, Oak Ridge, Tennessee,
USA.

Bian, Jiang; Cisler, Josh; Xie, Mengjun; James, Andrew; Seker, Remzi and
Kilts, Clinton; "A Methodology for Empirical Analysis of Brain
Connectivity through Graph Mining", 2011 IEEE International Conference on
Systems, Man, and Cybernetics (SMC 2011), October 9-12, 2011, Anchorage,
Alaska.

Bian, Jiang and Seker, Remzi ; "JigDFS : A Secure Distributed File System For
Medical Image Archiving", (Book Chapter), Advanced Medical Applications,
Springer, 2011.

Kanaskar, Nitin; Seker, Remzi; and **Bian, Jiang**; "Dynamical System Approach
to Insider Threat Detection", IEEE SysCon 2011, Proceedings of 2011 IEEE
International Systems Conference, Montreal, Quebec, Canada, April 4-11,
2011.

Bian, Jiang; Seker, Remzi; Topaloglu, Umit; and Bayrak, Coskun; "A Scalable
Role-based Group Key Agreement and Role Identification Mechanism", IEEE
SysCon 2011, Proceedings of 2011 IEEE International Systems Conference,
Montreal, Quebec, Canada, April 4-11, 2011.

Petty, Reed; **Bian, Jiang**; and Seker, Remzi; "Public Key Infrastructure", (Book
Chapter), Network Security, Administration and Management: Advancing
Technologies and Practices, IGI, 2011.

Bian, Jiang; Seker, Remzi and Topaloglu, Umit; "A Secure Distributed File 2010
System for Medical Image Archiving", IEEE PASSAT 2010, Proceedings of
2010 IEEE International Conference on Privacy, Security, Risk, and, Trust,
Minneapolis, Minnesota, USA, August 20-22, 2010.

Bian, Jiang; Seker, Remzi; Ramaswamy, Sridhar; "JigDFS in Container 2009
Communities for International Cargo Security", (Full Paper) IEEE SMC 2009,
Proceedings of 2009 IEEE International Conference on Systems, Man, and
Cybernetics, San Antonio, Texas, October 11-14, 2009.

Bian, Jiang; Topaloglu, Umit and Lane, Cheryl; "EIR: Enterprise Imaging
Repository, An Alternative Imaging Archiving and Communication System", 31st
International Conference of the IEEE Engineering in Medicine and Biology
Society, EMBC 2009. 2-6, September, 2009, Minnesota, USA.

Bian, Jiang; Seker, Remzi; Ramaswamy, Sridhar "JigDFS in the Anti-tampering
Wireless Sensor Network, Container Communities, for Global Cargo Security",
(Extended Abstract), Cyber Security and Information Intelligence Research
Workshop, CSIRW09. 13-15, April, 2009, Knoxville, TN, USA.

Bian, Jiang; Seker, Remzi; Ramaswamy, Sridhar and Yilmazer, Nuri "Container
Communities: Anti-tampering Wireless Sensor Network for Global Cargo
Security", 17th Mediterranean Conference on Control and Automation, MED09,
24-26, June, 2009, Thessaloniki, Greece.

Bian, Jiang; Seker, Remzi; "JigDFS: A Secure Distributed File System", IEEE

Symposium Series on Computational Intelligence in Cyber Security, CICS
2009. 30, March -2 April, 2009, Nashville, TN, USA.

Chiang, Chia-Chu; Bayrak, Coskun; Seker, Remzi; Topaloglu, Umit; Demirer, Murat; Samadi, Nasrola; Tek, Suleyman, **Bian, Jiang**; Zhou, GuangXu, Wang, Xiaoran: "Design of a Lattice-based Access Control Scheme", IEEE SMC 2009, Proceedings of 2009 IEEE International Conference on Systems, Man, and Cybernetics, San Antonio, Texas, October 11-14, 2009.

Bian, Jiang; Topaloglu, Umit; Seker, Remzi; Bayrak, Coskun and Chiang, Chia-Cchu, "A Role- based Secure Group Communication Framework," System of Systems Engineering, 2008. SoSE 2008. IEEE International Conference on System of Systems Engineering, 2-4 June. 2008, Monterey, California, USA. 2008

Bian, Jiang; Seker, Remzi; Topaloglu, Umit; Bayrak, Coskun; "Off-the-Record Secure Chat Room", WEBIST 2008, Proceedings of the Fourth International Web Information Systems and Technologies: Internet Technology, Funchal - Madeira, Portugal, May 4-7, 2008, INSTICC Press 2008.

Bian, Jiang; Seker, Remzi; Topaloglu, Umit, "Off-the-Record Instant Messaging for Group Conversation," Information Reuse and Integration, 2007. IRI 2007. IEEE International Conference on Information Reuse and Integration, vol., no., pp.79-84, 13-15 Aug. 2007 2007

Abstracts and Presentations

Presentations

"Multi-disciplinary research: computer science, bioinformatics, and neuroinformatics", Jiang Bian, presented in HIT@UCA,6/20/2011, Conway, AR.

"JigDFS: The Jigsaw Secure Distributed File System and Its Applications", Jiang Bian, presented in graduate seminar at UALR, 3/18/2011, Little Rock, AR

Posters

U. Topaloglu, **J. Bian**, G. Douglas, C. Lane, T. Wells, "Clinical Research Management System (CRMS)", poster in MCIM 2007, St Louis.

Umit Topaloglu, **Jiang Bian**, Cheryl Lane, "Enterprise Image Repository", AAMC GIR, April 22-25, 2009 Atlanta

Umit Topaloglu, William R. Hogan, Cheryl Lane, **Jiang Bian**, Thomas Kieber-Emmons, Laura F. Hutchins, Charlotte Hobbs, "Evaluation of caBIG tools for the National Children's Study", 2010 caBIG Annual meeting, September 13-15, 2010 Washington, D.C.

Umit Topaloglu, Rinku Saha, **Jiang Bian**, Clyde Bailey, Cheryl Lane, William R. Hogan, Laura F. Hutchins, Thomas Kieber-Emmons, John Shaughnessy Jr., "An Interoperable Framework to Link Biospecimen with Gene Array Data: a caArray and caTissue Integration Scenario.", 2010 caBIG Annual meeting, September 13-15, 2010 Washington, D.C.

Umit Topaloglu, Sree Rama Konduri, Cheryl Lane, William R. Hogan, **Jiang Bian**, Laura F. Hutchins, Clyde Bailey, John Shaughnessy Jr., Thomas Kieber-Emmons, "caArray Standalone Client for auto uploading and importing array files.", 2010 caBIG Annual meeting, September 13-15, 2010 Washington, D.C.

Umit Topaloglu, Cheryl Lane, William R. Hogan, **Jiang Bian**, Tong Jett, Ildeniz

Yayla, Zhidan Feng, Thomas Kieber-Emmons, Laura F. Hutchins., "The caBIG(r) Suite implementation update at the UAMS." , 2010 caBIG Annual meeting, September 13-15, 2010 Washington, D.C.

Umit Topaloglu, Cheryl Lane, William R. Hogan, MS, **Jiang Bian**, Vincent Yip, Thomas Kieber-Emmons, Laura F. Hutchins, "A System for Indexing Clinical Documents for Clinical and Translational Research, 2010 caBIG Annual meeting, September 13-15, 2010 Washington, D.C.