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A. Professional Preparation

Tong Ji University, China	Telecommunication Engineering	**B.S.**	1990
Tong Ji University, China,	Automation Control	**M.S.**	1993
Shanghai Jiao Tong University	Communication & Information Systems	**Ph. D**.	2000
University of Louisville	Bioinformatics	**Postdoc**	2000

B. Appointments

2010-present	Associate Professor	Bioinformatics	Samuel Roberts Noble Foundation
2010-present	Adjunct Professor	Computer Science	Oklahoma State University
2004-2010	Assistant Professor	Bioinformatics	Samuel Roberts Noble Foundation
2001-2004	Bioinformatics Scientist	Bioinformatics	University of Louisville
2000-2001	Research Associate	Bioinformatics	University of Louisville

C. Publications

i) Five Publications Related to the Project

Li J, Dai X, Liu T and **Zhao PX**. 2012. LegumeIP: An Integrative Database for Comparative Genomics and Transcriptomics of Model Legumes, ***Nucleic Acids Res.*** 40(1):D1221-9. *http://www.ncbi.nlm.nih.gov/pubmed/22110036*

Young ND, Debellé F, Oldroyd GED, Geurts R, Cannon SB, Udvardi MK, Benedito VA, Mayer KFX, Gouzy J, Schoof H, (**Zhao PX** as one of many co-authors), *et al*. 2011. The *Medicago* genome provides insight into the evolution of rhizobial symbioses, ***Nature***, 480(7378):520-4. *http://www.ncbi.nlm.nih.gov/pubmed/22089132*

Dai X and **Zhao PX**. 2011. psRNATarget: A plant small RNA target analysis server, ***Nucleic Acids Res.*** 39(Web Server issue):W155-9. *http://www.ncbi.nlm.nih.gov/pubmed/21622958*

Benedito VA, Torres-Jerez I, Murray JD, Andriankaja A, Allen S, Kakar K, Wandrey M, Verdier J, Zuber H, Ott T, Moreau S, Niebel A, Frickey T, Weiller G, He J, Dai X, **Zhao PX**, Tang Y, Udvardi MK. 2008. A gene expression atlas of the model legume *Medicago truncatula*. ***The Plant Journal***, doi:10.1111/j.1365-313X.2008.03519.x. *http://www.ncbi.nlm.nih.gov/pubmed/18410479*

Dai X, He J and **Zhao X**. 2007. A New Systematic Computational approach to Predict Target Genes of Transcription Factors. ***Nucleic Acids Res.*** 35(13):4433-4440. *http://www.ncbi.nlm.nih.gov/pubmed/17576669*

ii) Other Five Relevant Publications

Dai X, Zhuang Z and **Zhao PX**. 2011. Computational analysis of miRNA targets in plants: current status and challenges, ***Briefings in Bioinform.*** 12(2):115-21. *http://www.ncbi.nlm.nih.gov/pubmed/20858738*

Kaundal R, Saini R and **Zhao PX**. 2010. Combining Machine Learning and Homology-Based Approaches to Accurately Predict Subcellular Localization in Arabidopsis. ***Plant Physiol.***154 (1):36-54. *http://www.ncbi.nlm.nih.gov/pubmed/20858738*

Benedito VA, Li H, Dai X, Wandrey M, He J, Kaundal R, Torres-Jerez I, Gomez SK, Harrison MJ, Tang Y, **Zhao PX**, Udvardi MK. 2010. Genomic inventory and transcriptional analysis of *Medicago truncatula* transporters. ***Plant Physiol.*** 152(3):1716-30. *http://www.ncbi.nlm.nih.gov/pubmed/20023147*

Li H, Benedito VA, Udvardi MK and **Zhao PX**. 2009. TransportTP: A two-phase classification approach for membrane transporter prediction and characterization, ***BMC Bioinformatics*** 14;10:418. *http://www.ncbi.nlm.nih.gov/pubmed/20003433*

Broeckling CD, Reddy I, Duran T, **Zhao X** and Sumner LW. 2006. MET-IDEA: data extraction tool for mass spectrometry-based metabolomics, ***Anal Chem.*** 78(13):4334-41. *http://www.ncbi.nlm.nih.gov/pubmed/16808440*

D. Synergistic Activities

1. **Editorial Board:** Int. J. of Data Mining Modelling and Management (IJDMMM), since 2008, Associate Editor; Frontiers in Plant Science, since 2011, Associate Editor.

2. **Grant Review and Panel:** NSF (National Science Foundation)-Division of Molecular and Cellular Biosciences; NIH (National Institutes of Health)-Technology Development of Metabolomics review panel; GABI (Genome Analysis of the Plant Biological System) -FUTURE Program, by German Federal Ministry of Education and Research (BMBF); PLANT-KBBE 2008, 2009 and 2010, jointly launched by the Spanish Ministry of Science and Innovation -MICINN-, the German Ministry of Education and Research -BMBF-, the French Ministry of Research -MdR- and the French National Agency for Research -ANR-; Ohio Plant Biotechnology Consortium (OPBC).

3. **Program Committee Member:** The IEEE Program Committee Member of the IEEE International Conference on Bioinformatics & Biomedicine (BIBM 2010-2012).

4. **Professional Service:** Briefing in Bioinformatics, Bioinformatics, BMC Bioinformatics, BMC Plant Biology, BMC genomics, Evolutionary Bioinformatics, Plant Physiology, Molecular Plant-Microbe Interactions, RNA Biology, Molecular Plant, Planta, Journal of Bioinformatics and Computational Biology, Journal of Computer Science and Technology, Nucleic Acids Research.

E. Co-authors, Collaborators & Other Affiliations

Ahmed F., Allen S., Andriankaja A., Archual A., Aziz N., Barbe V., Bardou P., Bechner M., Bellec A., Benedito V., Berger A., Bergès H., Bharti A., Bidwell S., Bisseling T., Bouton J., Broeckling C., Broun P., Broz A., Bundschuh R., Cannon S., Cayrel A., Chabaud M., Chekhovskiy K., Chang J., Chen L., Chen R., Cheng X., Cheung F., Choisne N., Cook D., Couloux A., Dai X., Debellé F., Dénarié J., Denny R., Deshpande S., Ding B., Dixon R., Doyle J., Dudez A., Duran T., Endre G., Eschstruth A., Farmer A., Fei Z., Fouteau S., Franken C., Frickey T., Gallego-Giraldo L., Geurts R., Gibelin C., Goldstein S., Gomez S., González A., Gouzy J., Green P., Gundlach H., Hall W., Hallab A., Han Y., Harrison M., Hartog M., He J., Hou M., Hua A., Humphray S., Irian S., Itaya A., Iyer N., Jeong D., Jing Y., Jöcker A., Joung J., Kakar K., Kang L., Kang Y., Kaundal R., Kenton S., Khalyfa A., Kim D., King A., Kirigwi F., Klee K., Klinge C., Krishnakumar V., Kwak Y., Lacelle C., Lai H., Lang C., Lei Z., Li H., Li J., Li J., Lin S., Liu T., Macmil S., Magdelenat G., Mahalingam R., Mao C., Marks M., Matthews L., May G., Mayer K., May G., McCorrison J., Meyers B., Mian M., Mita S., Monaghan E., Monteros M., Moreau S., Mudge J., Mun J., Murray J., Mysore K., Najar F., Naoumkina M., Nelson R., Nicholson C., Niebel A., Noirot C., O'Bleness M., Oldroyd G., Ott T., Paule C., Peel G., Peer Y., Poulain J., Prion F., Proost S., Puckette M., Qi F., Qin B., Qu C., Quétier F., Ratet P., Reddy I., Retzel E., Riddle C., Roe B., Rogers J., Rombauts S., Roossinck M., Rosen B., Ryu C., Saha M., Saini R., Sallet E., Samain S., Samson N., Sanders I., Saurat O., Scarpelli C., Schiex T., Schoof H., Schwartz D., Scott A., Segurens B., Severin A., Sherrier D., Shi R., Silverstein K., Sims S., Singer S., Sinharoy S., Spannagl M., Sterck L., Sumner L., Susaimuthu J., Tadege M., Tang Y., Tang H., Tian L., Torez-Jerez I., Town C., Tu H., Udvardi M., Verdier J., Viollet A., Vivanco J., Wandrey M., Wang E., Wang G., Wang M., Wang Z., Wang B., Wang K., Wang X., Warfsmann J., Watson B., Weiller G., Weissenbach J., Wen J., White D., White J., Wiley G., Wincker P., Xing Y., Xu P., Xu S., Yang D., Yang L., Yao Z., Ying F., Young N., Yu B., Yuanji Z., Zhai J., Zhang J., Zhang Y., Zhang Q., Zhao Q., Zhou S., Zhou P., Zhou L., Zhuang Z., Zuber H., Zuber A

Thesis Advisor and postgraduate-Scholar Sponsor

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