

Curriculum Vitae for
Zhongmin (Andy) Xiong

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PhD (2004), Stanford University

Research Interest:

- plasma dynamics, optical discharge physics, computational electromagnetics, fluid turbulence, high performance computing.

Work Experience:

- Assistant Research Scientist, University of Michigan,. Electrical Engineering and Computer Science Department, 05/09-Present.
- Simulation and Modeling Engineer, Schlumberger Technology Center, Sugar Land, Texas. 04/07-04/09:
- Post-doctoral Staff Researcher, Fusion Energy Program Lawrence Livermore National Laboratory (LLNL). 08/04-05/07:

Selected Publications:

- Xiong, Z. R. Cohen, T. Rognlien, X.Q.Xu. "A high-order finite-volume algorithm for Fokker-Planck collisions in magnetized plasma". *J. Comput. Phys.* (2008) **277** (15) 7192-7205.
- Xu, X. Q. , Xiong, Z., Cao, Z., Nevins, W.M., McKee, G.B., " TEMPEST simulation of collisionless damping of geodesic-acoustic mode in edge plasma pedestal", *Phys. Rev. Lett.*, **100** (2008) ,215001.
- Xu. X.Q, Xiong, Z., Dorr,M., Hittinger, J.A, Candy, J., Bodi, K., Cohen,B.I., Cohen,R.H., Colella,P., Kerbel, G. Krasheninnikov,S, Nevins, W.M., Qin,H., Rognlien.T.D., Snyder,P.B., Umansky, M.V., . "Edge gyrokinetic theory and continuum simulations". *Nucl. Fusion.* **47** (2007) 809-816
- Xiong Z. and Lele, S. K., "Stagnation point flow under free-stream turbulence". *J. Fluid Mech.* **590** (2007), pp 1-33.
- Xiong Z. and Lele, S. K., "Distortion of upstream disturbances in a Hiemenz boundary layer". *J. Fluid Mech.* **519** (2004), pp. 201-232.
- Xiong, Z., Nagarajan, S., Lele, S.K. "Simple method of generating inflow turbulence". *AIAA J.* **42** (2004), pp. 2164-2166