

# Xiaoping Cao

Senior Principal Scientist at Pfizer

xcao2010@gmail.com

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## Summary

- Expertise and experience in pharmaceutical sciences including formulation, analytical, solid form, crystallization, and material sciences in both early and late stage projects
- Experienced project manager and team leader for cross functional teams
- Experience in managing external relationships such as outsourcing and research collaborations
- Continuous improvement training and experience in lean six sigma green belt
- Communication and language skills in both English and Chinese

## Recent publications

- 1) X. Cao, M. Morganti, B.C. Hancock, V.M. Masterson, J. Pharm. Sci., 2010, 99, 4307-4316.
- 2) X. Cao, B.C. Hancock, N. Leyva, J. Becker, W. Yu, V.M. Masterson, Int. J. Pharm., 2009, 368, 16-23.
- 3) V.M. Masterson, X. Cao. Int. J. Pharm., 2008, 362, 163-171.
- 4) X. Cao, N. Leyva, S.R. Anderson, B.C. Hancock, Int. J. Pharm., 2008, 355, 231-237.
- 5) Y-Y. Lua, X. Cao, B.R. Rohrs, D.S. Aldrich. Langmuir, 2007, 23, 4286-4292.
- 6) X. Cao, C. Sun, T.J. Thamann, J. Pharm. Sci., 2005, 94, 1881-1892.

## Specialties

- Scientific leadership & project management
  - Expertise & experience in formulation, analytical, material sciences and regulatory filing
  - Lean six sigma green belt certification
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## Experience

### **Senior Principal Scientist at Pharmaceutical Development, Pfizer**

2005 - Present (6 years)

- Lead project & cross-functional teams on formulation development, solid form selection, and crystallization process development. Define project strategies and manage project progress and resource.
- Team leader for a lean six sigma green belt project to improve drug product development risk assessment, helping improve drug product quality by design and robust product development.
- Manage external relationships such as project outsourcing and collaborations with external partners.
- Tablet and capsule formulation development; Define API attributes for optimized drug product design.
- Experience in late-stage development such as Phase III drug product clinical manufacturing as

well as experience in early stage projects in support of IND.

- Experience and knowledge in solid form screening, crystallization process, and material characterizations (e.g. particle & powder properties).
- Regulatory filing experience such as NDA, IND, CTA, PIP and IMPD.

*1 recommendation available upon request*

### **Principal Scientist at Analytical R&D, Pfizer Global R&D**

2003 - 2005 (2 years)

- Led analytical teams and supervised others in analytical project support.
- Conducted research and supervised a postdoctoral fellow on research initiatives of applying surface sciences to pharmaceutical R&D.
- Regulatory filing for analytical sections, scientific memos, study reports, external publications and presentations.

*1 recommendation available upon request*

### **Senior Scientist at Analytical R&D, Pharmacia/Pfizer**

2002 - 2003 (1 year)

- Developed, validated and implemented analytical methods for drug substances and drug product, including HPLC, GC, water KF and other analytical methods.
- Set up specifications, release lots, and conduct stability studies for drug substances and products.
- Trainings and experience in cGMP, GLP, SOP and ICH guidelines.

*1 recommendation available upon request*

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## Education

### **The University of Connecticut School of Business**

MBA, Management, 2008 - 2010

### **University of Wisconsin-Madison**

Ph.D., Chemistry, 1998 - 2002

Activities and Societies: AVS

### **Tsinghua University**

B.S., Chemistry

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## 3 people have recommended Xiaoping

"I had the pleasure of reporting to Xiaoping when I was working as a contractor at Pfizer, Inc in the materials science department. I was fresh out of college and Xiaoping not only helped me understand and learn about the pharmaceutical field but also encouraged my career development. For example, he spent a lot of time mentoring me on writing scientific papers. His knowledge, experience, and mentorship laid an excellent foundation for future articles. Xiaoping is someone who appreciates hard work and is good about giving recognition to those who deserve it. I never felt that my hard work would go unnoticed. Overall, I had a great experience working with Xiaoping and would highly recommend him."

— **Victoria Masterson**, *Contractor for Pfizer Inc. - Material Science Department, On Assignment*, reported to Xiaoping at Pharmaceutical Development, Pfizer Worldwide R&D

"I first worked with Xiaoping Cao during my tenure as Group Leader in the Project Progression development group at Pfizer in Kalamazoo, MI. Xiaoping was early in his career, I believe a year or two out of graduate school, and showed incredible potential and attention to detail. Product development in the pharmaceutical industry requires expertise in the process as well as the details, Xiaoping continually showed excellent aptitude in mastering for both the big picture and the details of the individual steps. I would welcome the opportunity to work with Xiaoping. He's top notch."

— **Carleton Barbour**, *Senior Principal Scientist / Group Leader, Pfizer, Inc*, managed Xiaoping at Analytical R&D, Pfizer Global R&D

"Xiaoping Cao was a colleague at Pharmacia/Pfizer (Kalamazoo, MI). He joined Pharmacia during 2002, and worked in the same analytical R&D group as me until mid-2005. During a portion of this time, Xiaoping reported to me. As a new colleague joining the pharmaceutical industry just after completing his graduate studies in analytical chemistry, Xiaoping was a quick learner and an enthusiastic, energetic scientist. He developed innovative ways to apply his knowledge of atomic force microscopy to help solve challenges related to formulation development and drug delivery. Xiaoping quickly became a valued member of multidisciplinary drug development teams and of the analytical R&D organization. He could be counted on to deliver on his objectives (often exceeding expectations) and to exhibit sound scientific and critical thinking, consistently. I am very confident in recommending Xiaoping as a pharmaceutical and analytical researcher."

— **Brent White**, *Associate Research Fellow, Pfizer*, managed Xiaoping at Analytical R&D,

Pharmacia/Pfizer

[Contact Xiaoping on LinkedIn](#)