

“Lost In Translation”

May 26th, 2011



Hiring is increasing but finding qualified talent remains a challenge

- In a quarterly survey of chief executives, the Business Roundtable found that **52 percent of companies planned to hire workers in the United States over the next six months** – *Business Roundtable, March 2011*

- In a recent survey, the commission found that **61 percent of U.S. employers say it is difficult to find qualified workers to fill vacancies at their companies**. Structural shifts in the economy are creating a widening disparity between the skills and experience that workers have and those increasingly demanded by the workplace. – *Business Roundtable, December 2010*

- There are many available workers applying for many jobs (some they aren't qualified for), and at the same time, **there are hard-to-fill jobs that require a very comprehensive and competitive recruitment strategy to find few potential candidates**. - *SHRM Future Insights: The top trends according to SHRM's HR subject matter expert panels*

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March 30, 2011

CEO Economic Outlook Survey Comparison of Results: 2010Q1– 2011Q1

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1. How do you expect your company's sales to change in the next 6 months?

Expected Sales	2011 Q1	2010 Q4	2010 Q3	2010 Q2	2010 Q1
Higher	92%	80%	66%	79%	73%
Equal	8%	15%	25%	17%	23%
Lower	0%	4%	9%	4%	5%

Note: Percentages may not equal 100% due to rounding.

2. How do you expect your company's U.S. capital spending to...

CORPORATIONS 101

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Corporations 101: The ABCs of the International Economy. Check back soon for more on the inner workings of corporations.

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RELATED STUDIES & RESOURCES



“Lost in Translation” - Overview

- Difference between an academic CV and a professional resume
- Skills and talents that would be applicable for private sector organizations (start-ups, consulting, fortune 500 etc)
- How to bridge the gap and communicate your uniqueness
- Case study 1 – Resume Makeover
- Case study 2 – Resume Makeover
- Key learnings and takeaways
- Q&A



CV v Resume – What does it mean?



Differences between a CV & Resume

	CV	Resume
Audience	<ol style="list-style-type: none"> 1. Academic 2. Fewer stakeholders 3. Professor is a key decision maker 4. They already speak "your" language 	<ol style="list-style-type: none"> 1. Employer 2. Multi stakeholders 3. Decision makers <ul style="list-style-type: none"> • Hiring Manager • Human Resources • Potential Team mates 4. Multi-lingual
What is valued	<p>Passion for</p> <ol style="list-style-type: none"> 1. Scholarship 2. Technical Expertise 	<p>Passion for</p> <ol style="list-style-type: none"> 1. Practical <ul style="list-style-type: none"> • Meet deadlines • Communicate with others • Work in teams • Manage people

Differences between a CV & Resume

	CV	Resume
Components	<ol style="list-style-type: none">1. Objective2. Research Interests3. Research Experience4. Academics5. Publications6. Technical Skills7. Awards8. References	<ol style="list-style-type: none">1. Executive Summary2. Professional Experience3. Education4. Awards5. Publications (only if relevant to employer or role you are applying for)6. Associative
Page Length	∞	1-2 pages

How does my academic experiences translate in the private sector?



Skills that you offer to employers

Skill	Example
Strategy	Designing an approach to problem in a lab
Project Management and analysis by the facts	Test your concept within a time frame and make refinements base on data (fact based decision making)
Communication	Teaching a class, giving a presentation at a conference, writing a paper
Innovation	Develop new technologies and obtaning patents
Passion	Being excited about your work always matters!



How do I communicate my uniqueness in my resume?



Bridge the communication gap

“Brevity is the soul of wit”, Shakespeare *“Same for resumes”, Jason Levin*

1. Can you define the problem you are addressing in clear language? Why is this problem worth addressing?
2. How did you use your technical expertise and analysis to attack this problem?
3. What goals or results did you achieve from your efforts?



Validate your resume in the profession

1. Get input from professionals working in your sector of interest
2. Challenge yourself to find more descriptive language to simply your message
3. Can you explain your work in:
 - 2 minutes?
 - 1 minute?
 - 15 seconds?



Lets look at some examples of CV transitions to Resumes



Resume Makeover – Case 1

“Post Doc with 3 page CV”



CV – Page 1

Smart Postdoc

University of x | address | City, State, 40xxx, USA

email | phone | website

CURRENT RESEARCH INTERESTS

- LP-EBID, electron-beam-induced deposition of nanostructures using *bulk liquid* precursors.
- Interactions of plasmonic nanostructures with a scanning-probe tip under laser illumination.
- Optical properties of hybrid nanostructures combining the plasmonic behavior of noble metals with the solid-solid transformations of transition-metal oxides.

EDUCATION

Ph.D. in Physics, Dec. 2008, [redacted] University, [redacted]

→ Dissertation: “Metal-Semiconductor Transitions in Nanoscale Vanadium Dioxide – Thin Films, Subwavelength Holes, and Nanoparticles”

→ Faculty advisors: [redacted]

M.S. in Physics, May 2006, [redacted] University

B.S. (*magna cum laude*) in Physics & German, May 2003, Sewanee: The University of [redacted]

PROFESSIONAL EXPERIENCE

Positions

→ **Postdoctoral scholar**, Nov. 2008–present: [redacted], Dept. of Electrical & Computer Engineering and Center for Nanoscale Science & Engineering, University of X, [redacted]

→ **Graduate research assistant**, Summer 2004–Fall 2008: *Materials Physics Group* ([redacted]) and *Applied Optical Physics Group* ([redacted]), Dept. of Physics & Astronomy and [redacted] of Nanoscale Science & Engineering, [redacted] University

→ **Graduate teaching assistant**, Fall 2003(7)–Spring 2004(8): Dept. of Physics & Astronomy, [redacted] University

Research accomplishments

- Helped to pioneer and currently developing LP-EBID, a novel direct-write technique for nanoscale deposition via electron-beam-induced decomposition of *bulk liquid precursors*, yielding nanostructures of high metal content.
- Developed novel method for dynamical control of EOT (“extraordinary optical transmission”) through arrays of nanoholes in noble metals using the metal-semiconductor transition of vanadium dioxide (VO_2).
- Used confocal Raman spectroscopy to probe, for the first time, the phase transition of individual VO_2 nanoparticles.
- Created hybrid Au+ VO_2 nanoparticles (50–150 nm) exhibiting size-dependent surface-enhanced Raman scattering (SERS) as well as some of the smallest (~30 nm) lithographic VO_2 nanoparticles.
- Explored modulation of the plasmon resonance of VO_2 -coated Au nanoparticles as a function of VO_2 phase [metallic/semiconducting], incident-light polarization, and particle size.
- Established fabrication protocol for vanadium sesquioxide (V_2O_5) thin films, whose phase transition is very sensitive to small amounts of non-stoichiometry and impurities.
- Taught four semesters of Introductory Physics Laboratory at [redacted] University (40 students per semester).
- Mentoring graduate students in *Hastings Research Group* and assisting in their experiments and simulations.
- Author, co-author, and reviewer of manuscripts for journal publication; contributor to grant proposals.

OTHER EXPERIENCE

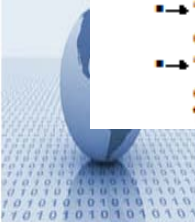
Research Experience for Undergraduates (REU)

→ **REU intern**, Summer 2002: *Laboratory for Electronic Materials & Devices*, University of [redacted], Denton, TX. Designed and fabricated prototypes for organic thin-film transistors on flexible plastic substrates.

Undergraduate seminar projects at Sewanee: The University of the South

→ “Spatio-Temporal Dynamics in Video Feedback”, Spring 2003. Demonstrated examples of stable, cyclical, and chaotic attractors, and implemented computational model of monochromatic video feedback.

→ “Chaos in a Pendulum”, Spring 2002. Studied complex behavior of damped-and-driven pendulum through hands-on experiments and numerical simulations.



CV – Page 2

TECHNICAL SKILLS

Experimental tools & techniques

- **Fabrication:** liquid-precursor electron-beam-induced deposition (LP-EBID), pulsed-laser deposition (PLD), thermal evaporation, plasma sputtering, spin-coating, furnace oxidation/reduction and crystallization.
- **Patterning & modification:** LP-EBID, electron-beam lithography (EBL), focused ion-beam (FIB) milling and lithography, scanning-probe-assisted laser nanopatterning, ion irradiation using 2-MeV Van de Graaff accelerator.
- **Materials characterization:** atomic-force microscopy (AFM), Rutherford backscattering spectrometry (RBS), x-ray diffraction (XRD), scanning electron microscopy (SEM), energy-dispersive x-ray spectroscopy (EDS), stylus profilometry, four-point-probe resistivity.
- **Optical:** attenuated total reflection (ATR), far-field transmission/reflection/spectroscopy, confocal microscopy, (micro-)Raman spectroscopy, scanning near-field optical microscopy (SNOM), ellipsometry, dark-field imaging.

Research equipment (designed & constructed)

- AFM-based optical setup for ATR excitation of surface plasmons and tip-assisted laser nanopatterning.
- Versatile optical setup for confocal transmission/reflection and dark-field scattering.
- Custom sample holders with thermoelectric/resistive heaters and thermocouples for optical measurements of VO₂ phase transition (T_c ≈ 340 K).
- Compact cryogenic vacuum chamber with liquid-N₂ cold finger and external heating element for optical measurements of V₂O₅ phase transition (T_c ≈ 150 K).
- Tube furnace system for thermal annealing in reactive atmosphere. →

Computer software

- **Calculations & simulations:** Mathematica, COMSOL Multiphysics, Lumerical FDTD Solutions, SIMNRA, SRIM/TRIM, CASINO, NIST-DTSA-II, TrueBASIC.
- **Data acquisition & analysis:** LabVIEW, MATLAB, IGOR Pro, Raith_e LiNE, Gwyddion, Microsoft Excel.
- **Manuscripts & presentations:** LaTeX, Microsoft Word & PowerPoint, EndNote, Adobe Illustrator & Photoshop.

AWARDS & HONORS

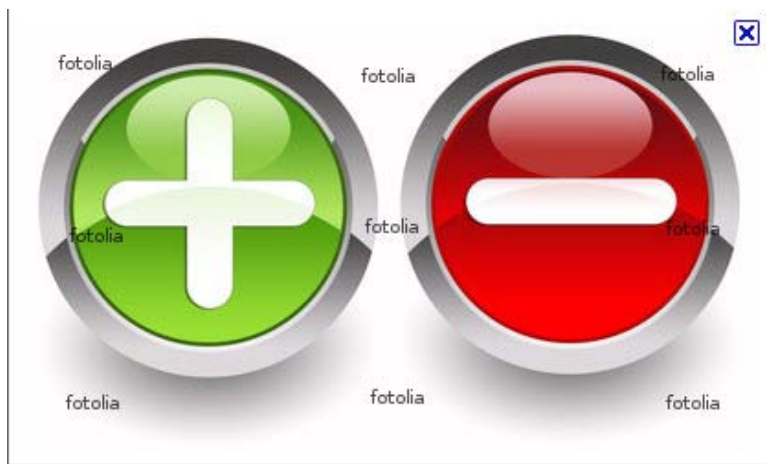
- 1st place in poster competition (38 contestants), 8th Annual Nanoscience & Nanotechnology Forum, Vanderbilt University, 2007. [Poster](#): "Modulation of the Gold Particle-Plasmon by the Metal-Semiconductor Transition of Vanadium Dioxide".
- Dissertation Enhancement Grant, Vanderbilt University, 2006.
- 1st place in poster competition (43 contestants), 5th Annual Nanoscience & Nanotechnology Forum, Vanderbilt University, 2004. [Poster](#): "Radiation Damage of CdSe Nanocrystals".
- William T. Allen Memorial Scholarship, Sewanee: The University of the South, 2003.
- Full International Student Scholarship, Sewanee: The University of the South, 1999–2003.

PEER-REVIEWED PUBLICATIONS

- "Substrate effects on the electron-beam-induced deposition of platinum from a liquid precursor", [10.1039/c1nr10026h](#)
 - "Electron-beam-induced deposition of gold from aqueous solutions", [015301](#)
 - "Liquid-precursor electron-beam-induced deposition of Pt nanostructures: dose, proximity, resolution", [505302](#)
 - "Electron-Beam-Induced Deposition of Platinum from a Liquid Precursor", [2715-2718](#)
 - "Size effects in the structural phase transition of VO₂ nanoparticles studied by surface-enhanced Raman scattering", [125002](#)
 - "Confocal Raman Microscopy across the Metal-Insulator Transition of Single Vanadium Dioxide Nanoparticles", [702-706](#)
 - "Using a Semiconductor-to-Metal Transition to Control Optical Transmission through Subwavelength Hole Arrays", [739135](#)
 - "Modulation of the gold particle-plasmon resonance by the metal-semiconductor transition of vanadium dioxide", [055202](#)
- Also selected for the journal's [Highlights of 2008](#) as one of the "highest quality rating" research papers.

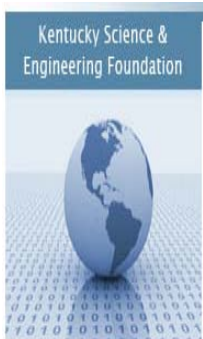


How to condense from CV to Resume



1. Title
2. Executive Summary
3. Date Order
4. Describe experience with accomplishments, research interests, skills embedded
5. Move education down

1. References
2. Non-essential papers
3. Technical skills that don't refer to actions
4. Computer skills that don't refer to actions



Resume – Page 1

Smart Postdoc ¶

University of [redacted] | address | city, state, zip, USA ¶

email | xxx xxx xxxx | website ¶

Postdoctoral Scholar – Manipulations of Materials & Light at the Nanoscale ¶

Postdoctoral scholar with research expertise in metal-semiconductor phase transitions and liquid-precursor electron-beam-induced deposition (LP-EBID) of nanostructures using bulk liquid precursors. Known among supervisors, colleagues and subordinates for the ability to develop strategy for studies in plasmonics and to execute focused trials that achieve unique results in manipulation of light. Author, co-author, and reviewer of manuscripts for journal publication; contributor to grant proposals. Multiple recognitions and awards in the areas of nanotechnology and nanoscience. ¶

PROFESSIONAL EXPERIENCE ¶

University of [redacted], Lexington, KY → → → → → → → → November, 2008–present ¶

Dept of Electrical & Computer Engineering and Center for Nanoscale Science & Engineering ¶

[redacted] – Postdoctoral Scholar ¶

- Recruited to study plasmonic nanostructures illuminated by laser light. Report directly to the principal investigator and manage two teams (4 graduate students). Develop strategy, execute tests and refine hypothesis based on results. ¶
- Helped to pioneer and currently developing LP-EBID (electron-beam-induced deposition), a novel direct-write technique for nanoscale deposition via electron-beam-induced decomposition of *bulk liquid precursors*, yielding nanostructures of high metal content. ¶
- Results included platinum purity at 85-95% and gold at 90%+ purity. Owing to its ease of use, innocuousness and high purity, LP-EBID is becoming a viable alternative to traditional EBID processes that utilize toxic, cumbersome, and costly gaseous precursors. ¶

[redacted] University, [redacted] → → → → → → → → June, 2004 – October, 2008 ¶

Dept of Physics & Astronomy and [redacted] Institute of Nanoscale Science & Engineering ¶

Materials Physics Group & Applied Optical Physics Group ¶

Graduate research assistant ¶

- Joined two research groups to learn more about the applications of vanadium dioxide (VO_2) as a means to bridge the worlds of electronics and photonics. Developed novel method for dynamical control of EOT (“extraordinary optical transmission”) through arrays of nanoholes in noble metals using the metal-semiconductor transition of VO_2 .
 - Used pulsed-laser deposition (PLD) to make VO_2 material by combining oxygen and vanadium. Verified the material composition of VO_2 through Rutherford backscattering spectrometry (RBS). ¶
 - Employed focused ion-beam (FIB) milling to punch nanoscale holes in the VO_2 . Designed and performed optical measurements using a scanning near-field optical microscopy (SNOM) and far-field transmission spectroscopy. ¶
 - Achieved manipulation (i.e., switching) of light on a subwavelength scale. ¶
- Used confocal Raman spectroscopy to probe, for the first time, the phase transition of *individual* VO_2 nanoparticles.
 - Used PLD and RBS processes to set up material for patterning and modification via electron-beam lithography (EBL). Created patterned templates to control the size and spacing of the VO_2 nanoparticles. ¶
 - Measured the structural phase transition of individual VO_2 nanoparticles to study the occurrence of nucleating defects, which can be used to tailor the transition behavior of VO_2 for technological needs. ¶

[redacted] University, [redacted], TN → → → September, 2003 – May, 2004 and September, 2008 – May, 2008 ¶

Dept of Physics & Astronomy – Graduate teaching assistant ¶

Resume – Page 2



EDUCATION.....

Ph.D. in Physics, Dec. 2008, [REDACTED] University, [REDACTED], TN.

Dissertation: "Metal-Semiconductor Transitions [REDACTED]"

Faculty advisors: [REDACTED]

M.S. in Physics, May 2006, [REDACTED] University.

B.S. (*magna cum laude*) in Physics & German, May 2003, [REDACTED] The University of the [REDACTED].

- "Spatio-Temporal Dynamics in Video Feedback", Spring 2003. Demonstrated examples of stable, cyclical, and chaotic attractors, and implemented computational model of monochromatic video feedback.
- "Chaos in a Pendulum", Spring 2002. Studied complex behavior of damped-and-driven pendulum through hands-on experiments and numerical simulations.



AWARDS & HONORS.....

- 1st place in poster competition (38 contestants), 8th Annual Nanoscience & Nanotechnology Forum, [REDACTED] University, 2007. Poster: "Modulation of the Gold Particle-Plasmon by the Metal-Semiconductor Transition of Vanadium Dioxide".
- Dissertation Enhancement Grant, [REDACTED] University, 2006.
- 1st place in poster competition (43 contestants), 5th Annual Nanoscience & Nanotechnology Forum, [REDACTED] University, 2004. Poster: "Radiation Damage of CdSe Nanocrystals".
- William T. Allen Memorial Scholarship, [REDACTED]: The University [REDACTED], 2003.
- Full International Student Scholarship, Sewanee: The University [REDACTED], 1999-2003.

PEER-REVIEWED PUBLICATIONS.....

"Substrate effects on the electron-beam-induced deposition of platinum from a liquid precursor", [REDACTED]

"Electron-Beam-Induced Deposition of Platinum from a Liquid Precursor", [REDACTED]

"Size effects in the structural phase transition of VO₂ nanoparticles studied by surface-enhanced Raman scattering", [REDACTED]

"Confocal Raman Microscopy across the Metal-Insulator Transition of Single Vanadium Dioxide Nanoparticles", [REDACTED]

"Optical properties of subwavelength hole arrays in vanadium dioxide thin films", [REDACTED]



Kentucky Science & Engineering Foundation

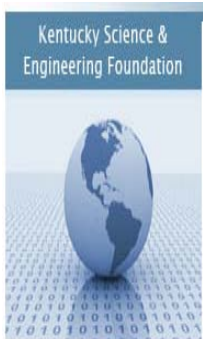


EXPERIMENTAL PROGRAM to STIMULATE COMPETITIVE RESEARCH



Resume Makeover – Case 1

“PhD with 3 page CV”



CV – Page 1

Chemistry, PhD

SRB, Room 325 672 1/2 Atwood St.

University of , USA

, KY 40208, USA

(mobile); (work)

Email:

OBJECTIVE

Seeking a postdoctoral research position in the field of drug delivery that integrates aspects of organic synthesis, biomaterials and nanotechnology.

RESEARCH INTERESTS

- Organic synthesis; synthesis of targeted delivery systems for therapeutic agents and drug conjugates using click chemistry
- Nanoparticle-mediated drug delivery; engineering multifunctional nanoparticle-based targeted delivery systems
- Non-viral gene delivery; targeted gene transfer using nano-vectors (e.g., liposomes and nanoparticles)

RESEARCH EXPERIENCE

2007-Present (Ph.D. thesis research; advisor: University of)

Organic Synthesis

- Synthesis and characterization of novel cationic oxime ether lipids for targeted gene delivery
- Synthesis and characterization of oxime ether conjugates of the anti-cancer drug doxorubicin
- Synthesis and characterization of novel aminoxy-based quaternary ammonium salts for various biomedical applications
- Solid-phase and solution phase syntheses of peptide-fluorophore conjugates (e.g., cypate)
- Synthesis of a panel of hydroxyethyl-based cationic lipids for use in microchip breath analyzer

Alternating Magnetic Field (AMF)-Triggered Drug Delivery

- Preparation, characterization and formulation of magnetic nano-carriers for doxorubicin
- Demonstration of *in vitro* AMF-triggered drug release and cell death
- Presently working on *in vivo* demonstration to substantiate the principles listed above.

Gene Delivery

- Design, formulation and optimization of cationic oxime ether lipids for gene transfer applications
- Preparation and characterization of cationic aminoxy-functionalized Fe_3O_4 nanoparticles
- Synthesis, characterization, formulation and application of novel magnetic lipid particles for *in vitro* transfections
- Development of alternating magnetic field-induced heat shock protein (hsp)-promoted gene delivery systems

CV – Page 2



2005-2006-(Post-M.S.-research)-advisor: [REDACTED]

- Formulation of highly stable water-dispersed silver nanoparticles as an antimicrobial agent
- Glucose sensing ability of entrapped glucose oxidase in hollow gold nanoparticles



KEY SKILLS

- Design, formulation, optimization and evaluation of drug and gene delivery systems (e.g., magnetic nanoparticles and liposomes)
- Experience with drug release studies in cancer cells; evaluation of cytotoxicity using multiple assays
- Operation of an alternating magnetic field generator to induce magnetic nanoparticle heating
- Extensive experience with non-viral methods of mammalian cell transfection; including the use of nanoparticles, magnetofection, cationic lipids, and polymers
- Familiar with different transfection assay systems (luciferase and GFP vector)
- Operation of fluorescence microscopy (AMG-EVOS microscope)
- Proficient at solid phase and solution peptide syntheses



ACCADEMICS



Ph.D., Chemistry (January 2007–expected date of graduation Aug 2011)

Thesis Title: [REDACTED]

Thesis Advisor: Prof. [REDACTED]

Department of Chemistry, University of [REDACTED], USA → → →



M.Sc., Chemistry, 2005 → → →

Department of Chemistry, University of [REDACTED] a →



B.Sc., Chemistry (with Honors), 2002 → → → →

University of [REDACTED], Kolkata, India



AWARD

Asit Ganguly and Jean Scholarship, 2003-2005 (this award is presented annually to the top three students in the M.Sc. Chemistry program at the University of [REDACTED])



PATENT and PUBLICATIONS



Patent

[REDACTED]



Peer-Reviewed Publications

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]



CV – Page 3

[REDACTED]

Conference Proceedings and Presentations

[REDACTED]

TEACHING EXPERIENCE

- Invited lecturer for Advanced Organic Chemistry- 679, Modern Methods of Organic Synthesis
- Invited lecturer for undergraduate organic chemistry-341 and 342
- Organic Chemistry Recitation: Graduate Teaching assistant (GTA) for Organic chemistry- 341 and 342 (fall-2007-summer-2008, Department of [REDACTED], [REDACTED])
- Organic Chemistry Laboratory: GTA for Organic chemistry lab-344 (2007-spring and summer, Department of Chemistry, [REDACTED])
- Teacher, High School Chemistry (Ganges Public School, India, 2002-2003)

INSTRUMENTATION

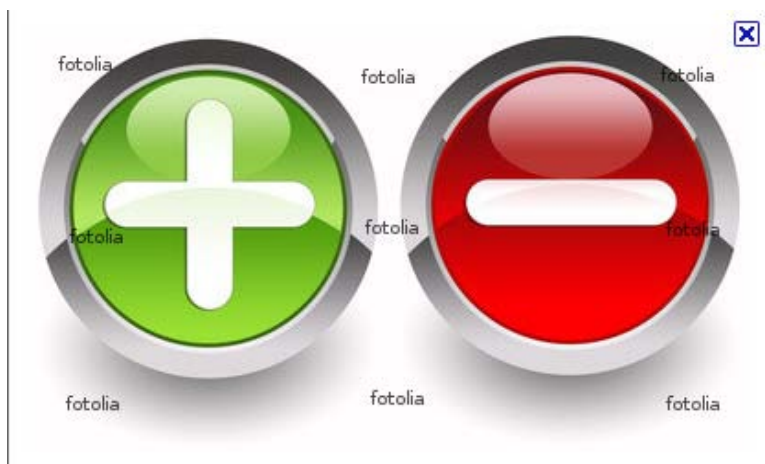
NMR, FTIR, HPLC, Combiflash (automatic liquid chromatograph system), particle size analyzer

REFERENCES

[REDACTED]
[REDACTED]
michael.nantz@louisville.edu
[REDACTED]
[REDACTED]
geoff.dark@louisville.edu
[REDACTED]
[REDACTED]
xiaoran.fu@louisville.edu



How to condense from CV to Resume



- | | |
|---|-------------------------|
| 1. Title | 1. Objective |
| 2. Executive Summary | 2. References |
| 3. Describe research experience with clear language, accomplishments, research interests, skills embedded | 3. Non-essential papers |
| | 4. Technical Skills |
| | 5. Computer Skills |
| 4. Move education down | |



Resume – Page 1

Cancer, Fighter, PhD ¶

SRB, Room 325 672-1/2 Atwood St. ¶
..... KY 40217, USA
University of ¶
..... 40208, USA ¶
502-xxx-xxxx (mobile), 502-xxx-xxxx (work) ¶
Email: xxxxxx@xxxxxxxx.edu ¶

Entrepreneurial Chemistry PhD – Cancer Treatment Innovation ¶

Entrepreneurial Chemistry PhD with research expertise in organic synthesis, nanoparticle-mediated drug delivery and non-viral gene delivery with applications in innovative cancer treatments within Schools of Medicine and Chemistry (University of Louisville), Permutations of these technology developments support trials in Schools of Dentistry (University of Minnesota) and Chemical Engineering (University of Louisville). Recognized among colleagues, nationally, for full-life-cycle research by strategizing projects, executing trial development analytics and realizing compounds in-vitro. Current patent holder in nanoparticles for drug delivery. ¶

RESEARCH EXPERIENCE ¶

University of [redacted], [redacted], KY → → → → → → → → 2007-Present ¶
PhD Researcher – Chemistry ¶

- Conceptualize, execute and test nanoparticle research for potential applications in alternative gene and drug delivery (e.g., magnetic nanoparticles and liposomes). Present study results on a weekly basis to advisor and team of 6 PhD researchers as a means to update team and offer solutions for peer research projects. The study focuses on a method combining a drug to enter the body in an inactive state and then using oscillating magnetic field-induced heat shock for active release of the drug at the target site in order to kill cancer cells. ¶
- Develop organic synthesis around the characterization of novel cationic oxime ether lipids for targeted gene delivery. Further synthesis and characterization of oxime ether conjugates of the anti-cancer drug doxorubicin. These processes allow for the drug conjugate to be properly formulated for delivery at the physicochemical condition. ¶
- Executed an operation of an alternating magnetic field generator to induce magnetic nanoparticle heating. Preparation, characterization and formulation of magnetic nano-carriers for doxorubicin. ¶
- Results include the development of an alternating magnetic field-triggered doxorubicin delivery in the human breast cancer cell. Demonstration of *in vitro* AMF-triggered drug release and cell death. Presently working on *in vivo* demonstration to substantiate the principles listed above. ¶
- Validated transfection results using multiple assays such as luciferase and GFP vector. Further gauged the impact of the gene delivery via fluorescence imaging (AMG EVOS microscope). ¶

University of [redacted] → → → → → → → → 2005-2006 ¶
Post.M.S. research; advisor: Prof. [redacted], University of [redacted] ¶

- Formulation of highly stable water-dispersed silver nanoparticles as an antimicrobial agent ¶
- Glucose sensing ability of entrapped glucose oxidase in hollow gold nanoparticles ¶

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Engineering Foundation



Resume – Page 2

ACADEMICS

University of x, Department of Chemistry, [REDACTED], USA
Ph.D., Chemistry (January 2007–expected date of graduation Aug 2011)
Thesis Title: “Click” [REDACTED]

University of x, Department of Chemistry, [REDACTED]
M.Sc., Chemistry, 2005

University of [REDACTED]
B.Sc., Chemistry (with Honors), 2002 → → → →

AWARD

Asit Ganguly and Jean Scholarship, 2003-2005 (this award is presented annually to the top three students in the M.Sc. Chemistry program at the University of [REDACTED])

PATENT and PUBLICATIONS

Patent

1. → [REDACTED]

Peer-Reviewed Publications

[REDACTED]
[REDACTED]

Sample of Conference Proceedings and Presentations

1. → [REDACTED]

TEACHING EXPERIENCE

- Invited lecturer for Advanced Organic Chemistry 679, Modern Methods of Organic Synthesis
- Invited lecturer for undergraduate organic chemistry 341 and 342
- Organic Chemistry Recitation: Graduate Teaching assistant (GTA) for Organic chemistry 341 and 342 (fall 2007–summer 2008, Department of Chemistry, University of [REDACTED])
- Organic Chemistry Laboratory: GTA for Organic chemistry lab 344 (2007–spring and summer, Department of Chemistry, University of [REDACTED])

INSTRUMENTATION

NMR, FTIR, HPLC, Combiflash rf (automatic liquid chromatograph system), particle size analyzer

Kentucky Science & Engineering Foundation

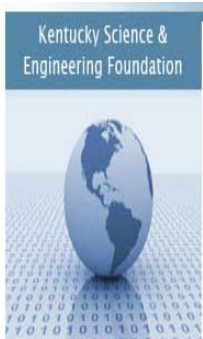


EXPERIMENTAL PROGRAM to STIMULATE COMPETITIVE RESEARCH

vault®
career intelligence

Key Takeaways

1. You have transferable skills for the private sector
2. “Resume” is French for “summary” so communicate the essential:
 - The problem you addressed
 - Analysis taken
 - Goals and results achieved
3. Ensure your language is professional and understandable
 - “It takes a village to build a resume” so do be afraid to reach out to people working in your sector of interest for feedback
4. A resume is a living, breathing document. Revisit it every 6-9 months
5. Have fun. You will learn more about yourself.





Jason Levin
Vault.com
jlevin@vault.com

**Thank you and
happy resume
writing!**