# Curriculum Vitae

For research scientist track only.

Candidate must use the template provided by ADAA office. The template is available for download at: [http://adaa.engin.umich.edu/research-faculty/prs-promotions/,](http://adaa.engin.umich.edu/research-faculty/prs-promotions/,%20) or fill in contents below.

# First Name Last Name

Position

Department

University of Michigan, College of Engineering

Business Address

City, State, Zip

Office Phone: 222-222-2222

Office Fax: 222-222-2222

Cell Phone: 222-222-2222

myname[@umich.edu](mailto:email@umich.edu)

**Education**

(Degrees, dates, schools, title of doctoral dissertation, and name of dissertation advisor(s) **in reverse chronological order with the most recent degree first**)

**Appointments**

**Positions at U of M** *(titles and dates)*

**Positions at other institutions or organizations** *(titles and dates)*

**Honors and Awards**

**International**

**National**

**Institutional**

**Teaching**

**Ph.D. committee activity**

**Chaired/Co-Chair** *(Name of student, year or anticipated year of graduation, dissertation title, chair or co-chair, student current position. Please include all current and formerly supervised students.) Suggested format:*

1. Jaehun Jung, 2018, Directed Intramolecular Heavy Atom Effects toward Vibration- insensitive Metal-free Organic Phosphors, Chair

Student current position: Assistant Professor, University of Colorado

**Member** (Other Ph.D. membership)

1. Kangwon Lee, Ph.D., 2008, Functionalized Conjugated Polymers for Signal Amplifying Biosensors and Sensor Arrays, Member

Student current position: Assistant Professor, University of Colorado

**M.S. students advised/co-advised**  *(Name of student, year or anticipated year of graduation, thesis title, student current position, chair or co-chair. Use same format as above.)*

1. Alicia Smith, MS, 2012, Macromolecular Science and Engineering, Co-Advised, University of Michigan, Unknown

Student current position: Assistant Professor, University of Colorado

**Undergraduate major projects directed** *(Include project title, number of students involved and year.)*

1. Project Title: Utilizing polymer spacer layers to limit recombination in P3HT:PCBM organic solar cells, 2011-2015, Number of Students: 1, Sponsor: SURE Summer Research Program

**Mentoring activities involving post-doctoral scholars**

1. Trained and mentored, Dr. Hyong-Jun Kim (2004 - 2008, Postdoctoral Fellow, MSE) Currently Associate Professor at Kongju National University, 01/2004 - 01/2008

**Short courses and workshops taught** *(Indicate course, location or institution, date, enrollment, nature of participation.)*

**Outreach directly related to teaching**

**Other (e.g., Scholarly work in education)**

**Research**

**Research programs underway** *(Include a brief description of each research area and information regarding involvement of graduate and undergraduate students, research staff, and other faculty members, both inside and outside UM. Include outreach if that is part of research projects.)*

**Past grants and contracts**  *(Include sponsor, project title, dates, amount, names of principal investigators and/or co-principal investigators, candidate’s share and number of GSRAs supported by grant or contract.* ***Grants and contracts must be sequentially numbered by start date, in reverse chronological order; i.e., newest item first.)*** *Suggested format:*

1. *LMS Co., Ltd.* , X16-PAF0247, "Transparent and UV-curable Resins having High Thermal Stability," 06/2011 - 05/2014, Total: $182,616, Jinsang Kim (PI). Candidate's Share: $182,616. Number of GSRAs/Post-Docs Supported: 1

**Current grants and contracts** *(Include sponsor, project title, dates, amount, names of principal investigators and/or co-principal investigators, candidate’s share and number of GSRAs supported by grant or contract.) Suggested format:*

**\* All grants and contracts are subject to verification by the casebook committee and department.**

1. *NSF, DMREF*, X16-PAF0247, "Simulation-Based Predictive Design of All-organic Phosphorescent Ligh- Emitting Molecular Materials," 10/2014 - 09/2017, Total: $997,787, John Kieffer (PI), Jinsang Kim (Co-PI). Candidate's Share: $402,225. Number of GSRAs/Post-Docs Supported: 1

**New research directions** *(****One page maximum.*** *Provide a narrative description of any new research planned, including proposed research in pending grants) Suggested format:*

1. **Title**

High Thermoelectric and Thermal conductivity from Functional Polymers Polymers have become important active materials for various device applications. While optical properties of polymers have been extensively studied and utilized in optoelectronic applications, the thermal conductivity of polymers has been overlooked because thermal conductivity of polymers is small and falls within a rather narrow range (0.1 – 0.5 Wm-1K-1). Recently we hypothesized that by incorporating strong interpolymer interactions between polymer chains we can largely enhance the connectivity in bulk polymer films and increase the resulting thermal conductivity. We designed a series of such polymers having strong interpolymer hydrogen bonding.

**Pending grants and contracts**  *(List proposals that are pending. Include sponsor, project title, amount, names of principal investigators and/or co-principal investigators, candidate’s share and number of GSRAs supported by grant or contract and submission date.) Suggested format:*

1. *Texas A&M in Qatar*, "Directed Self-assembly and Alignment of Conjugated Polymers for High Performance Plastic Electronics," 09/2015, Total: $314,661, J Kim (PI). Candidate's Share: $314,661. Number of GSRAs/Post-Docs Supported: 1

**Publications and Scholarly Presentations**

***NOTES:******Publications in each category below must be sequentially numbered in reverse chronological order; i.e., newest items first. CVs without numbered publications will not be accepted for review.***

Publication format may vary by discipline but should be consistent in the casebook.

* Underline the names of graduate student(s) to whom you’ve provided significant

guidance listed among the authors;

* Undergraduate students should be single underlined and noted by an asterisk \* after their name.

*The preferred format in the Provost’s Office is for journal names to be spelled out (i.e. not abbreviated). If this is not possible, then the abbreviations* ***must*** *be included, along with the full journal names, in the qualitative ranking list of journals in the casebook.*

**Full articles in refereed publications**  *(Full articles in refereed journals, transactions, or archives that have appeared or have been accepted only)*

1. Onas Bolton, Dongwook Lee, Jaehun Jung, **Jinsang Kim**. "Tuning the Photophysical Properties of Metal-Free Room Temperature Organic Phosphors via Composition." *Chemistry of Materials* 2014, Impact Factor: 8.238, Accepted

**Shorter communications, letters, notes, or briefs in refereed publications**

1. Onas Bolton, Dongwook Lee, Jaehun Jung, **Jinsang Kim**. "Tuning the Photophysical Properties of Metal-Free Room Temperature Organic Phosphors via Composition." *Chemistry of Materials* 2014, Impact Factor: 8.238, Accepted

**Refereed conference or symposium proceedings papers** *(If conference papers are strictly reviewed and are of journal quality, please identify these papers)*

**Refereed conference summaries or abstracts**

**Abstracts in non-refereed conference proceedings**

**Books**

**Chapters in books**

**Book reviews**

**Government, university, or industrial reports (non-refereed)**

**Publications in popular press/magazines**

**Other submitted publications**

**Invited presentations** *(Invited keynote presentations at conferences or symposia, or seminar series at peer institutions)*

**Technology Transfer and Entrepreneurship**

**US and international patents awarded** *(inventors, title, number, date issued)*

**Provisional patents and patents pending** *(inventors, title, date submitted)*

**Invention disclosures submitted**  *(inventors, title, date submitted)*

**Licensing and technology transfer**

**Startups and entrepreneurial activities**

**Other major technology transfer activities** *(provide whatever information you find appropriate)*

**Industry interactions** *(consulting arrangements, board memberships, etc.)*

**Outreach directly related to research**

**Other**

**Service**

**Major committee assignments in the Department, College, and/or University**

**Department**  *(Name of committee, dates, member or chair status)*

**College** *(Name of committee, dates, member or chair status)*

**University** *(Name of committee, dates, member or chair status)*

**Administrative duties at U of M**

**Service to government or professional organizations, and service on review board/study panels**  *(Name of committee, chair or member, editorships etc.; dates)*

**Contribution to diversity and climate**

**Outreach that is not part of service, teaching, or entrepreneurship**

**Mentoring activities involving junior faculty members**

**Other**

**Summary of contributions to teaching, research, service and major impact**

Recommend one (1) page each on teaching, research and service, for a total of 3-4 pages. May use 2 pages to emphasize contributions in one particular area only; e.g., teaching. Total length should not exceed 4 pages.

The research summary may also include contributions to tech transfer and entrepreneurship as well as broader impact-focused activities if applicable.

The service summary may include contributions to diversity and climate, if applicable.