
CURRICULUM VITAE

DR. ANDREAS BILL

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Professional Activities

- 2016 - present **Department Chair.**
 Physics & Astronomy, California State University, Long Beach, CA
- 2014-present **APS Bridge Program site leader.** Member of the architects council since 2009.
- 2015- 2018 **Chair line** of the Far West Section of the American Physical Society. (2015: Vice-Chair, 2016: Chair-Elect, 2017: Chair, 2018: Past chair)
- 2010 - present **Professor**, California State University, Long Beach.
- 2010 - 2016 **Graduate Advisor, Associate Chair** of the department.
- 2013-2014 **Visiting Professor**, Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC).
- 2009 **Visiting Professor**, Bremer Institut für Angewandte Strahltechnik (BIAS), University of Bremen.
- 2005 - 2010 **Associate Professor**, California State University, Long Beach.
- 1999-2004 **Research Scientist**, Paul Scherrer Institute (PSI) & ETH Zürich, Switzerland.
- 1998 **Research Scientist**, Max Planck Institute for Physics of Complex Systems, Dresden, Germany.
- 1996-1997 **Post-doctoral researcher**, Lawrence Berkeley National Laboratory.
- 1989 Full-time substitute teacher for physics, mathematics and chemistry, high-schools, Geneva, Switzerland.

Education & Honors

- 2018 **President Award** for Outstanding Faculty Achievement, California State University Long Beach.
- 2011 **Faculty Award for Excellence**, College of Natural Sciences & Mathematics, CSULB.
- 1995 **Dr. rer. nat.** in Theoretical Physics, *suma cum laude* University of Stuttgart, Germany. Advisor: Prof. E. Sigmund.
- 1989 **Diploma in Physics (Dipl. Eng. Phys.)**, *magna cum laude* Swiss Federal Institute of Technology Lausanne (EPFL). Advisor: Prof. P.A. Martin.

1988 Conservatoire Populaire de Musique de Genève, Switzerland, *suma cum laude*
Instrument: Organ. Class of M. Extermann. Prix du Conseil d'État de Genève.

Funding

Research Funding (external)

2013-2017 National Science Foundation Grant, DMR-1309341.
2011-2012 Army High Performance Computing Research Center Grant II,
Research & Infrastructure Develop. Program for Hispanic Serving Inst.
(together with P. Jaikumar & Z.Papp)
2010-2011 Army High Performance Computing Research Center Grant I,
Research & Infrastructure Develop. Program for Hispanic Serving Inst.
(together with P. Jaikumar & Z.Papp)
2009-2013 National Science Foundation Grant, DMR-0907242.
2009 Faculty Research Visiting Grant from the DAAD
(German Scientific Exchange Services).
2007-2010 Research Corporation Grant, Cottrell College Science Award.
1998 Research Fellow, Max Planck Institutes, Dresden, Germany.
1997 Postdoctoral Fellow, Naval Research Laboratory, Washington D.C.
1996, 1997 Postdoctoral Fellow, Swiss National Science Foundation, Switzerland.

Research Funding (intramural)

2011-2017 RSCA grant, CSU Long Beach (annually assigned time)
2013-2014 Difference in Pay Leave, (at ICMM, Madrid, Spain),
2006-2009 Scholarly and Creativity Activities Committee Award,
CSU Long Beach (assigned time for 3 semesters).

Teaching & Service Funding

2019-present Google Inc. grant for the Bridge Program.
(site leader, together with C.Kwon & G. Pickett)
2014-2017 American Physical Society Bridge Program Site
(grant & site leader, together with C.Kwon & G. Pickett)
2014 American Physical Society, Minority Speaker Program Grant,
(for colloquium guest).
2010-2012 Army High Performance Computing Research Center Grant (see research)
2008, 2010 American Physical Society, Women Speaker Program Grant,
(for colloquium guest).

CSU Long Beach Service

Department Chair (2016-present)

University Resource Council, CSU Long Beach (2017-2018, 2020-2023)

Advisory Council on Enrollment Management (2015-present)

Member at large of the Academic Senate, CSU Long Beach (2013-2015)

Associate Chair of the department (2012-13, 2014-16)

Department Graduate Advisor (2011-2016)

Department committees (served at various times on the following committees)

Department Council, Faculty Search, graduate committee,
RTP, curriculum committee, library representative.

Responsible for the department website.

Coordinator of the Physics Colloquium.

Member of Master's theses committees.

Juror at the annual CSULB Student Research Competition.

Faculty Advisor of the CSULB International Student Fellowship.

Member of the Faculty support group of the Veritas Forum.

Scientific Community Service

Continuous Service

External reviewer for Physical Review B, Physical Review Letter,
Journal of Superconductivity & Novel Magnetism, European Journal of Physics B,
Physica A, Physics Letters, Journal of the Physics & Chemistry of Solids

Reviewer for NSF, SSRL, PhD theses, etc.

International Workshop

Co-organizer & invited speaker of the international workshop (Colombia, June 2011)

"1st Centennial of Superconductivity: Trends in Nanoscale
Superconductivity and Magnetism"

In charge of the Proceedings for the conference.

American Physical Society (APS), Far West Section (FWS)

Chair line of the Far West Section of APS (2015-2018).

FWS annual meeting at CSU Long Beach: Chair and host of the conference (2015).

Member elect of the executive committee (2009-2012).

Representative of the APS on Capitol Hill visit (May 2011, Jan. 2016, 2017, 2018)

Representative of the CA-APS section at the annual convocation (May 2011, Jan. 2016, 2017, 2018).

FWS APS Newsletter editor for 2011, 2012, 2017, 2018.

FWS annual meeting at SLAC Member of the invited speaker committee (Oct. 2011).

FWS annual meeting at Caltech Chair of the invited speaker committee
and abstract sorting committee member (October 2010).

Chair of the website committee of the APS (redesign of the content of the website)

Minority Bridge Program: Member of the APS Bridge Program Architect's Council (2010-present).
To build bridges between undergraduate & Master's granting institutions with
Ph.D. granting institutions (since 2013).

California Professoriate for Access to Physics Careers (CPAPC)

Representative for CSU Long Beach (with C. Kwon).

GRE Bootcamp Initiated the creation of the boot camp weekend for southern California and
organized with C. Kwon and P. Jaikumar since 2011 (led the camp 4 times).

Group members & Master's theses (at CSULB)

Present members:

V. Larionov, R. Wang, C. Burgess, T. Bowman.

Former members - Master's students:

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| A. Garcia | Master's Thesis in Physics, CSU Long Beach, 2018.
Thesis: "Parameter Dependence of Pair Correlations in
Clean Proximity Systems"
<i>Now Ph.D. student at The Ohio State University</i> |
| B. Chan | Master's Thesis in Physics, CSU Long Beach, 2017.
Thesis: "Hyperboloid-Parameterized Description Of Diffusive
Superconducting-Magnetic Hybrid Systems"
<i>Now Ph.D. student at The Ohio State University</i> |
| L. Leal | Master's Thesis in Physics, CSU Long Beach, 2016.
Thesis: "Pair Correlations in Clean Magnetic Josephson Junctions"
<i>Now Ph.D. student at University of Rochester, New York</i> |
| J. Brugger | Comprehensive exam in Physics, CSU Long Beach, Fall 2016. |
| G. Wang | Master's Thesis in Physics, CSU Long Beach (2015).
Thesis: "Numerical Simulation of the Random Nucleation and
Growth Model in Thin Films"
<i>Now Ph.D. student at University of New Mexico, Albuquerque</i> |
| A.K. Moke | Master's Thesis in Physics, CSU Long Beach (2013)
Thesis: "Superconducting Critical Temperature of Inhomogeneous
Magnetic Proximity Systems"
<i>Now tutor in Madison (WI)</i> |

- H. Sadeghi Master's Thesis in Physics, CSU Long Beach (2013)
Thesis: "The Dielectric Function and Plasmons in Graphene"
Now M.S. student in Computer Science at USC.
- Dr. T.E. Baker Master's Thesis in Physics, CSU Long Beach (2012)
Thesis: "Superconducting-Magnetic Proximity Systems and
Mathematical Analogies to Classical Mechanics"
Now Ph.D. student at UC Irvine.
- K.S. Lokovic Master's Thesis in Physics, CSU Long Beach (2011).
Thesis: "Non-Equilibrium Grain Size Distribution for
Generalized Growth and Nucleation Rates"
Now working at SBG Labs.
- Dr. J. de Rojas Master's Thesis in Physics, CSU Long Beach, 2011.
Thesis: "Electronic properties of graphene multilayers
and graphite thin films."
Now Ph.D. student at UC Davis.
- A. Richie-Halford Master's Thesis in Physics, CSU Long Beach, 2010.
Thesis: "Numerical Modeling of the Singlet Proximity Effect
in a Superconductor-Ferromagnet Trilayer."
Now Ph.D. student at University of Washington, Seattle
- A.V. Teran Master's Thesis in Physics, CSU Long Beach, 2009
Thesis: "Modeling the grain size distribution during
solid phase crystallization of Silicon."
*Now working as a Medical Physicist at
ProCure Proton Therapy Center, New Jersey.*

Undergraduate student project supervision

- N. Werner Summer 2017 (supported by NSF grant)
- J. Mejia Sandoval Honors Student (Thesis 2016)
- J. Wimbish Summer 2015 (supported by NSF grant)
- M. Campos Winter & Spring 2012
- O. Icreverzi Summer 2011 (supported by NSF grant)
- A. Atallah Summer 2011 (supported by NSF grant)
- F. Blumenthal Spring & summer 2010 (supported by Research Corporation grant)
- L. Mitchell Spring & summer 2009 (supported by Research Corporation grant)
- A. Hartman Winter 2009
- C. Thayn Winter 2008 & summer 2008 (supported by Research Corporation grant)
- N. Squires Spring, summer & fall 2007
- J. Alvarez Winter 2007
- E. Karadayi Summer 2007 (supported by Research Corporation grant)
- K. Harness Spring, fall, winter 2006, spring, summer 2007