

Mike Bobak

Knowledge-Engineer / Research-Programmer

2104 Bryant
San Francisco, CA 94110
(415) 894-9724
mike.bobak@gmail.com

EXPERIENCE

Freelance, SF — Knowledge-Engineer/Ontologist 2011-present

Data-science/semantics study/projects and work, incl IoT, CMS, pharma-ontologies.

ApolloGrp.edu, SF — Architect, Adaptive Learning Platform 2010-11

Semantic annotation of tests and related study materials so needs could be surfaced.

UCSF.edu, SF — Programmer/Analyst III 2007-10

Semantic annotation of clinical trial entrance descriptions to automake induction.

Freelance, Chicago/Boston — Knowledge-Engineer/Programmer 01-07

Brightware like follow on rule-based consulting, incl Verizon and many other places.

kbs.ai.UIUC.edu, Beckman Inst — (sr)Research-Programmer 1998-2001

Coordinated software teams to make an immersive intelligent simulation tutor.

Brightware, Chicago — Knowledge-Engineer/Programmer 1996-98

Helped design and did first install of an automated email answering system.

Inst of Learning Sciences, Evanston, IL — Lead Programmer/Analyst 96

Extended a model-based explainable simulation/Intelligent-Tutoring-System.

Argonne National Lab, Argonne, IL — Software Engineer 1993-96

Wrote expert-system for EPA, then knowledge-guided coupled eco-simulation.

EDUCATION

University of Illinois, Urbana-Champaign — *MS Biophysics/Combio/AI*

Wrote well used molecular viz/minp package. Thesis Knowledge-guided Simulation.

University of Illinois, Urbana-Champaign — *BS Physics, BS Biophysics*

Included work/study at an allied lab, writing acoustics simulation, taking data & more.

Expanded versions at: <http://notional.no-ip.org/michael-bobak.html>

<http://mike.bobak.googlepages.com/m-bobak.pdf>

SKILLS

AI

[Artificial Intelligence Adaptive Systems](#) [Computational Intelligence](#)

[Business-Rules/Expert Systems](#) [Case-Based Reasoning](#) [Intelligent Agents/Systems](#)

[Onto/KnowledgeEng,KnBased SysOntology/Taxonomy Dev](#) [Controlled Vocabularies](#) [Conceptual/Decision Modeling](#) [Knowledge Representation](#) [LogicProgramming](#)

[Natural Language Processing/Understanding](#) [Text Classification](#) [SNOMED](#)

[Semantic:Web, Search Information](#) [Access/Extraction/Retrieval](#)

[Data Mining/Machine Learning](#) [Data Analysis](#)

[Model-based-reasoning](#) [Composite Applications](#) [Causal Inference](#) [Intelligent Tutoring Systems](#)

Science

[Research Scientific Viz/Simulation](#)

[ComputationalSci](#) [Math/\(Bio\) physics](#)

Others

[HPC/Cloud Computing:](#) [Mapreduce/Hadoop](#)

[ExploratoryProgramming,](#) [Dynamic Languages,Common Lisp etc.](#)