

# KLINT KANOPKA

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## EDUCATION

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### Stanford University

*exp. 2023*

Ph.D. in Education (Developmental and Psychological Sciences)

Masters in Computer Science (Artificial Intelligence)

Burt and Deedee McMurtry Fellow

Advisor: Maria Araceli Ruiz-Primo

### Drexel University

*2012*

M.S. in Instruction

Coursework focused on curriculum development, science pedagogy and educational administration.

### Drexel University

*2005*

B.S. in Physics

Coursework focused on computational physics, mathematical physics and nonlinear dynamics.

## RESEARCH EXPERIENCE

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### DECISA

*September 2017 - Current*

*Laboratory on Educational Assessment, Research and Innovation*

*Stanford GSE*

- An NSF funded project under Dr. Maria Ruiz-Primo.
- Assists in development of instructionally sensitive physics assessments and analysis of subsequent item responses.

### RTLIS

*May 2018 - Current*

*Reading to Learn in Science*

*Stanford GSE*

- A TELOS funded project under Dr. Jonathan Osborne.
- Uses computational text analysis and natural language processing to classroom and online discussion in a MOOC teaching reading strategies for K-12 science teachers.

## AWARDS

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- Recipient of the Stanford Graduate Fellowship.

## CONFERENCE PRESENTATIONS

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- **Addressing Defensive Objections: Adversarial Examples in Automatic Essay Scoring**  
Accepted into the paper session: "Special Topics in Test Validity Research: Artificial Intelligence in Test Construction and Scoring"  
*AERA Annual Meeting, 2019*
- **Diagnosing Non-Parallelism in Hierarchically Contextualized Physics Assessments**  
Accepted into the paper session: "Assorted topics in physics"  
*NARST Annual International Conference, 2019*

## PROFESSIONAL MEMBERSHIPS

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**American Educational Research Association**

*2018 - present*

Division D

**National Council on Measurement in Education**

*2018 - present*

**National Association for Research in Science Teaching**

*2018 - present*

## **GRADUATE TEACHING EXPERIENCE**

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**EDUC 423: Introduction to Data Science for Social Scientists**

*Winter 2019*

*Course Assistant*

*Stanford University*

- Assisting in planning, grading and running labs.

## **K-12 TEACHING EXPERIENCE**

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**The Academy at Palumbo**

*August 2010 - June 2017*

*Physics Teacher*

*Philadelphia, PA*

- Courses Taught: AP Physics 1, AP Physics B, AP Physics C, Precalculus, Environmental Science and Algebra 1
- Wrote grants and fundraised to turn an unused storage room into a MakerSpace and Engineering Lab, with a 3D printer, CNC router and other tools. This space functions as a design lab for the entire school as well as a home base for the schools robotics team.
- While teaching AP Physics 1, B and C made steady and significant year-to-year gains in student test scores. In doing so, the expectations for achievement on math and science AP exams were raised for the entire school.
- Designed and delivered PD on problem solving, inquiry teaching methods, science education, classroom culture, technology integration and migration to a new Google Apps environment.
- Helped launch the Philadelphia Teacher Symposium with a seminar on using estimation to build number sense in math and science classrooms.
- Coached forensics team to the NSDA Nationals (2016-2017), NCFL Grand Nationals (2015-2016, 2016-2017) and PHSSL state tournaments (2012-13, 2013-14, 2014-15, 2015-16).
- Coached First FTC robotics team to city finals in their first three years (2014-15, 2015-16, 2016-2017).

**Crossroads Accelerated Academy**

*January 2010 - June 2010*

*Physical Science Teacher*

*Philadelphia, PA*

- Part of a pilot program teaching 9 th grade Physical Science to overage 8th graders
- Over 60% of participating students received high school credit.
- Developed a half-year inquiry-based physical science curriculum.
- In charge of technology management for entire program.
- Developed and delivered technology-based PD to meet needs of new staff.

## **CONSULTING**

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**Drexel University/School District of Philadelphia**

*August 2010 - June 2017*

*Physics Curriculum Consultant*

*Philadelphia, PA*

- Position was a partnership between Drexel University and the School District of Philadelphia Office of Curriculum.
- Wrote the Physics Scope and Sequence, the official physics curriculum for the School District of Philadelphia which is accessible through an employee portal.
- Created pacing for traditional and block scheduling, standards (NGSS & Common Core) aligned resources, internally generated screencasts and labs and banks of assessment questions.

- Designed and delivered supporting professional development sessions.

**Teach For America**

*Physics Curriculum Consultant*

*June 2017*

*Philadelphia, PA*

- Designed summative and unit assessments of content mastery.
- Created questions and rubrics to evaluate student argumentation using the Claim-Evidence-Reasoning model.
- Created standards aligned (NGSS) lesson outcomes and lesson plans.