

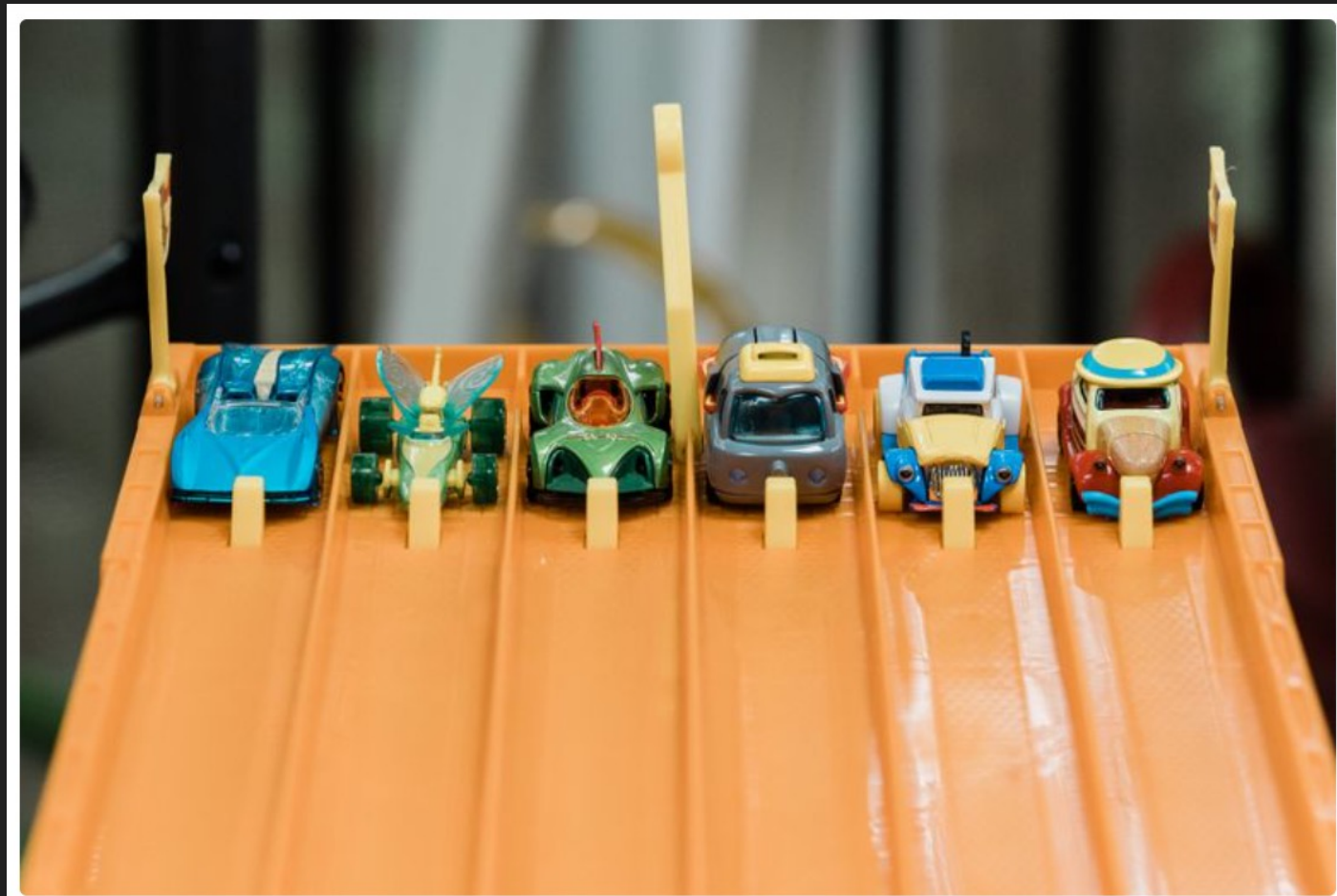
# Innovative Applications in Designed Experiments

August 14, 2024

Ryan Lekivetz, Advanced Analytics Manager, DOE & Reliability



# Making Design of Experiments Accessible.



#DOEbyPhilKay

## Easy DOE: Easy Enough for a Seven-Year-Old? (2022-US-30MP-1163)

Created: Jun 10, 2022 04:36 PM | Last Modified: Aug 24, 2022 01:14 PM

Ryan Lekivetz, JMP Principal Research Statistician Developer, SAS  
Rory Lekivetz, First grade student, Northwoods Elementary School



# Innovations in DOE

Research Article  
**Fast Flexible Space-Filling Designs for Nonrectangular Regions**

Ryan Lekivetz✉, Bradley Jones

Research Article  
**Screening Designs for Continuous and Categorical Factors**

Bradley Jones, Ryan Lekivetz, Dibyen Majumdar & Christopher Nachtsheim✉

Received: 2021-12-22, Accepted: 2024-03-14, Published: 2024-05-14

Articles

“Cite

**A family of orthogonal main effects screening designs for mixed-level factors**

Bradley Jones✉, Ryan Lekivetz & Christopher Nachtsheim

Pages 527-5

“Cite this

[Home](#) > [HCI International 2023 Posters](#) > Conference paper

**Assessing the Usability of Statistical Software Using Designed Experiments**

Conference | [Home](#) > [HCI International 2024 Posters](#) > Conference paper

pp 681–688

**Assessing the Usability of Statistical Software Using a Discrete Choice Experiment**

Conference paper | First Online:

[Home](#) > [Journal of Statistical Theory and Practice](#) > Article

**On the Testing of Statistical Software**

Original Article | Published: 25 August 2021

Volume 15, article number 76, (2021) [Cite this article](#)

+24  
patents

## On-Demand Webinars

By Application Area ^

By Series ▼

For JMP Users ▼

A-Z

All Application Areas

Design of Experiments

Quality Engineering, Reliability and Six Sigma





# Interns



# DOE & Reliability Interns

- Yi (Irene) Ji

BayesFLo: Bayesian fault localization of complex software systems

- William (Bill) Fisher

Demographic-Targeting and Contextualized Discrete Choice Experiments for Learning User Interface Preferences

- John Miller

# Two Innovative Applications

- Yeng Saanchi
  - Testing as a Designed Experiment
- Bryce Scott
  - Group Orthogonal Supersaturated Design

Jones, B., Lekivetz, R., Majumdar, D., Nachtsheim, C.J. and Stallrich, J.W., 2020. Construction, properties, and analysis of group-orthogonal supersaturated designs. *Technometrics*, 62(3), pp.403-414.



# Thank you!

[www.linkedin.com/in/ryanlekivetz/](https://www.linkedin.com/in/ryanlekivetz/)

Ryan.Lekivetz@jmp.com



