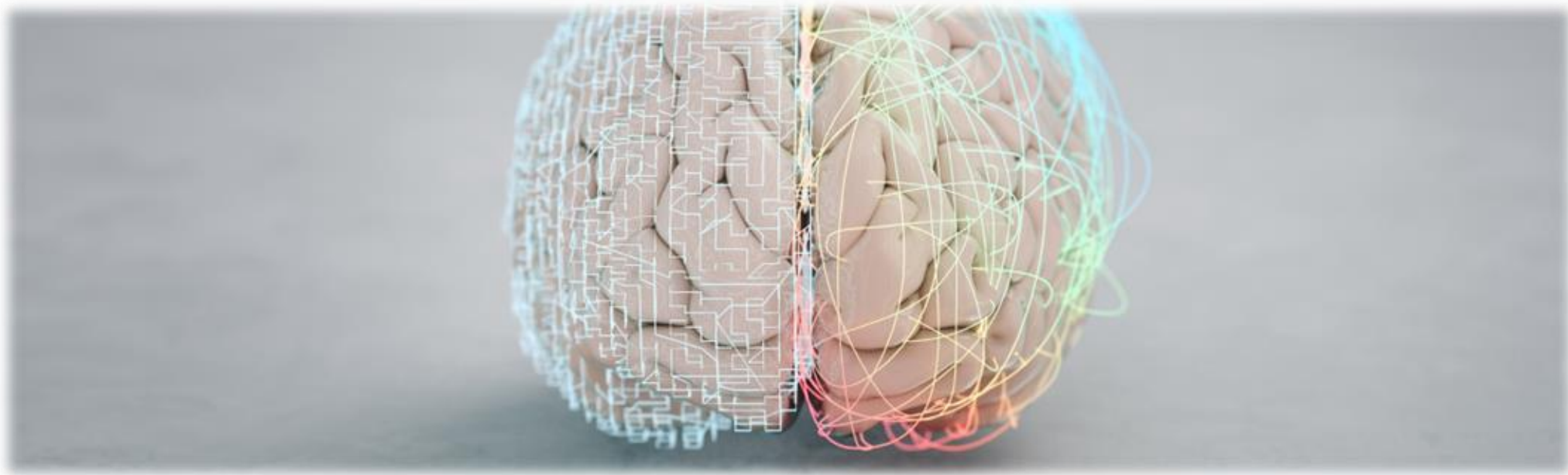




GenAI in Action: Transforming Research and Boosting Productivity

Victoria L. Prince, Ph.D.

Technical Panel: *Real-World Use Cases of AI in Clinical Data Workflows*
PHUSE SDE - Cambridge, MA - Oct 8, 2026



Presenter is an employee of Takeda Development Center Americas, Inc.
The views expressed in this presentation are the views of the presenter and may not represent those of the employer.

Better Health, Brighter Future

About me



Victoria Liublinska Prince, PhD
Statistician • Data Scientist • Learning catalyst

The infographic features a central illustration of Victoria Liublinska Prince, a woman with brown hair and glasses, resting her chin on her hand. To her right is a vertical list of six icons with corresponding text: a Takeda logo for 'Takeda', a Harvard crest for 'Harvard-trained', an R logo for 'R adoption and open-source advocate', a lightbulb with 'AI' for 'GenAI initiatives', two people for 'Mentor and knowledge sharer', and a gear with an arrow for 'Strategic thinker with technical depth'. Below the illustration is a stack of three books titled 'STATISTICS', 'CLINICAL DEVELOPMENT', and 'BAYESIAN THINKING', next to a mug that says 'Learn, teach, empower.' At the bottom are three icons: a graduation cap for 'Academia + industry', a flask for 'Clinical development', and a bell curve for 'Bayesian thinking'.

Takeda

Harvard-trained

R adoption and open-source advocate

GenAI initiatives

Mentor and knowledge sharer

Strategic thinker with technical depth

Academia + industry

Clinical development

Bayesian thinking

- **By day:** lead statistical strategy for clinical trials, from protocol design through analysis and reporting.
- **Beyond my core work:** founded Takeda's internal **R User Community** and contribute to the R Core Team shaping the **strategic roadmap for R** and open-source adoption.
- Support exploration of **GenAI applications in clinical development** and educate colleagues on emerging technologies, methods, and tools.
- **Classically trained statistician** with the first 10 years of my career in higher education, supporting academic and institutional research as a data scientist.
- Committed to **building communities of practice, sharing knowledge, and making expertise accessible.**

Use Cases Shared ~15 Months Ago

Boston biotech friends — let's hang out! 🎉
Posit + Moderna are teaming up for a Life Science Hangout 🤖
Moderna HQ in Cambridge | 📅 July 23 @ 5:30PM



- Since then, ChatGPT changed 4 generations of models ... and (possibly) solved the Navier-Stokes problem, one [Seven Millennium Prize Problems](#)



- Since then, the first \$1.8B platform has emerged, vibe-coded by a single person (more [here](#))... and AI agents broke into a [national healthcare system](#)



- Since then, companies have begun deploying entire autonomous multi-agent workflows into production, driving a major paradigm shift. It will reach clinical trials [faster than we might expect](#)*

Keep Exploring. Keep Sharing.

PRESENTATION

TL03: GenAI in Action: Transforming Research and Boosting Productivity

In Session: Section on Statistical Consulting P.M. Roundtable Discussion (Added Fee)

Tue, Aug 4, 12:30 PM - 1:50 PM Room CC-Ballroom Foyer

Thomas M. Menino Convention & Exhibition Center

Victoria Liublinska Prince Takeda Development Center Americas

Takeaways from the JSM 2026 roundtable:

Build AI fluency through regular use

- Keep trying new models, tools, and workflows, especially on bounded tasks where you can quickly tell if the output is reasonable.
- Learn how to give context, set constraints, interrogate outputs, trace claims to evidence, and recognize when a model is **outside its reliable “range”**.

Make verification part of the workflow

- Ground AI in trusted sources and follow the citations back to the original evidence.
- Ask: *Can I tell when this is wrong? How quickly? What happens if I miss it?* The roundtable's strongest use cases had short verification loops and relatively **low costs of failure**.

Share what works, help others learn

- Bring examples, failures, prompts, workflows, and lessons back to your colleagues. Today's experimentation becomes tomorrow's **collective expertise**.
- Preserve opportunities for junior colleagues to develop their statistical judgment. Automation can accelerate the work, but we will still need experts who can critically evaluate its output.

Looking forward to the panel discussion!



Victoria Liublinska Prince, PhD
Sr. Manager, Statistics Gastrointestinal and
Inflammation (GI2) Unit at Takeda



Scan to connect

