



Life of a Statistician @ Lilly

Wei Shen, Ph.D.
Senior Director—Statistics, Data and Analytics
Eli Lilly and Company

NISS Virtual Career Fair
October 13, 2021



Wei Shen, Ph.D.

Statistical Leader in Drug Development:

- Osteoporosis
- Men's Health
- Autoimmune Disorders
- COVID-19

Roles

Technical roles:

- Research Scientist (1996-2000)
- Principal Research Scientist (2001-2003)
- Research Advisor (2010-2011)

Leadership roles:

- Head/Director (2003-2009)
- Senior Director (2011 to Current)

External Activities

- American Statistical Association
 - Fellow
 - Chair, committee of nominations
- International Chinese Statistical Association
 - President
- Journal of Biopharmaceutical Statistics
 - Associate Editor

Our Purpose + Values

Lilly unites caring with discovery to create medicines that make life better for people around the world.

OUR VALUES

Integrity

Excellence

Respect for People

Global Fast Facts

A heritage of 145 **years**, founded on May 10, 1876



Clinical research conducted in more than **55 countries**



Research and development facilities located in **8 countries**



Manufacturing plants located in **8 countries**



Products marketed in **120 countries**



Headquarters located in **Indianapolis, Indiana, U.S.A.**



Approximately **34,000 employees** worldwide



More than **7,900 employees** engaged in research and development



LILLY IS PROUD TO CALL INDIANAPOLIS HOME!

Time magazine
ranked Indianapolis a
TOP 10 CITY
to start a new career.



Indianapolis is
home to the two
largest single-day
sporting events
in the world, the
Indianapolis 500
and the
Brickyard 400.



Indianapolis has a
booming craft beer
and food scene.



Indianapolis is the
13TH
LARGEST CITY
in the United States.

Indianapolis is the home of the:



**Pacers
& Fever**



Colts



Indy Eleven



Indians



Indy Fuel

INDIANAPOLIS'
CULTURAL TRAIL

is ranked one of
America's Best Urban
Bike Trails.

visitindy.com

downtownindy.org

indianapolis.com

indyculturaltrail.org

indyhub.org

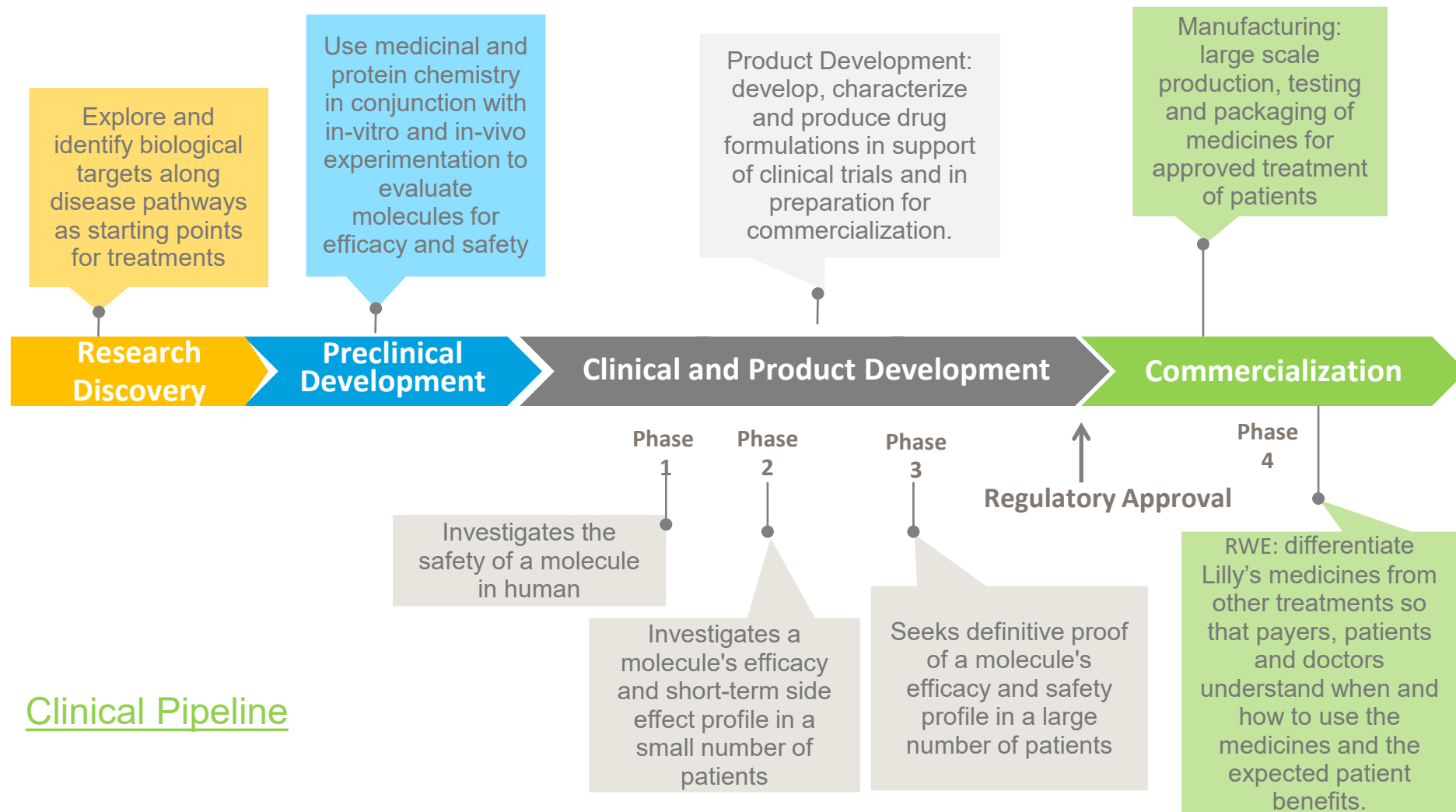
FOR MORE INFO

STATISTICS, DATA AND ANALYTICS

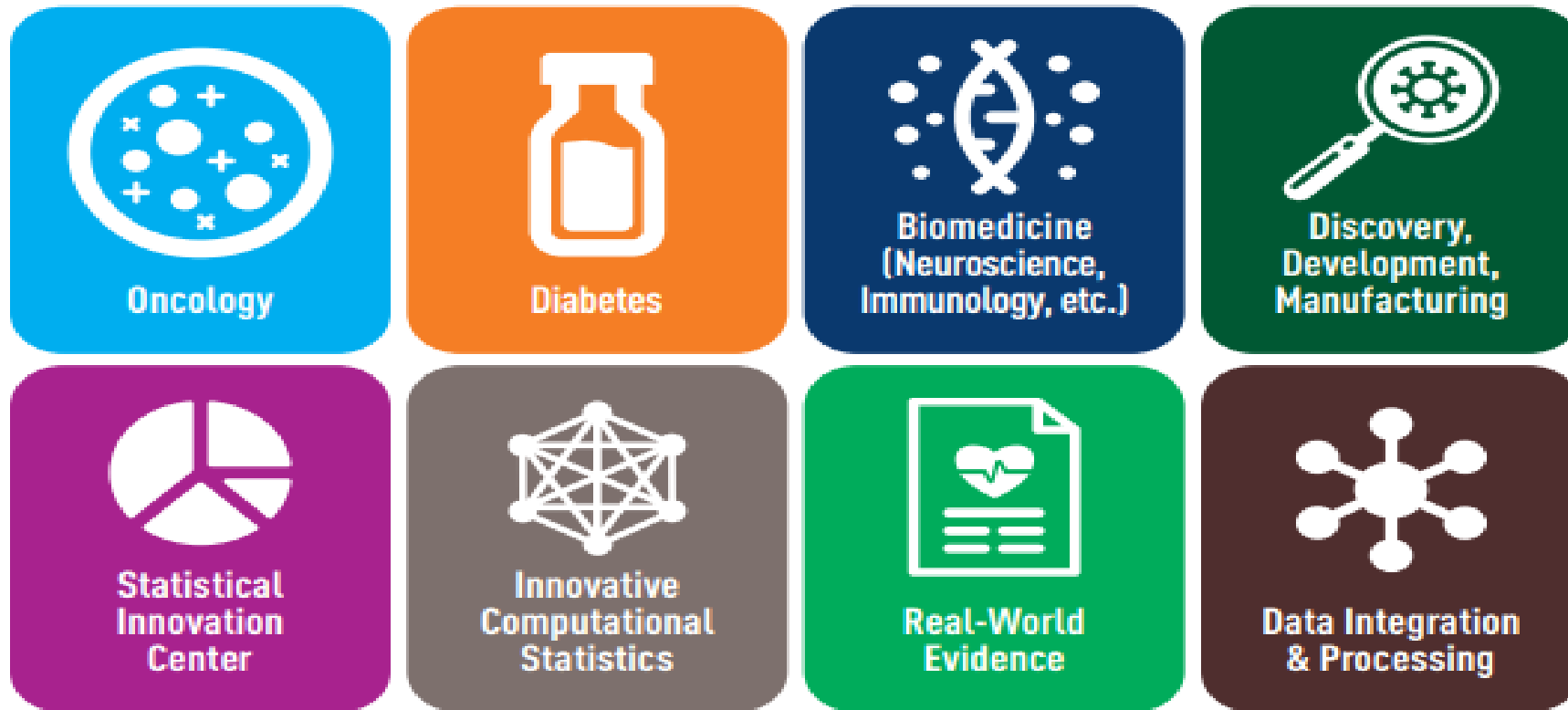
Making Life Better ACROSS the Globe THROUGH Efficient and Innovative Statistical Support to Overall Drug Development



Drug Development Process



Areas in Statistics, Data and Analytics



Open Positions & Qualifications

Internship & Co-Op

Intern Qualifications:

- Ph.D. in Statistics or Biostatistics, who will have completed third year of Ph.D. program by May 2022

Co-Op Qualifications:

- Currently working on Ph.D. in Statistics or Biostatistics, with at least three years of completed graduate work.

Research Scientist Clinical & Non-Clinical

Qualifications:

- Ph.D. Statistics or Biostatistics

Sr. Research Scientist

Qualifications:

- Ph.D. in Statistics OR Biostatistics, with at least 3 years of proven experience in clinical research and development
- M.S. in Statistics OR Biostatistics, with at least 11 years of proven experience in clinical research and development

Principal Research Scientist

Qualifications:

- Ph.D. Statistics or Biostatistics
- At least 7 years of proven experience in clinical research and development

Statistical Positions

Research Scientist - Project Statistician



- ◆ PhD
- ◆ Study design, data analysis methods, results interpretation, learning/applying new methods, improving existing methods
- ◆ Partnering with others (scientists, physicians, marketing, etc.) to improve discovery, development and commercialization

Career Paths



- ◆ Technical
- ◆ Administrative/Leadership
- ◆ Combination of two

American Statistical Association Fellows



Karen Price



Brenda
Crowe



Brian Millen



Wei Shen



Ilya Lipkovich



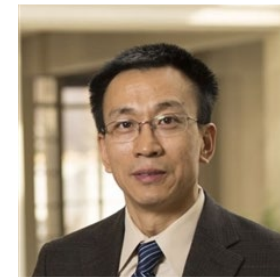
Haoda Fu



Pandu
Kulkarni



Scott Clark



Yongming Qu



Vipin Arora



Advice for Candidates

Interview Preparation

- Ensure your resume highlights your accomplishments
- Research the company
- Get familiar with the job description
- Practice your technical presentation
- Explore common interview questions
- Prepare questions for the interviewers

During Interview

- Be clear on what drives and motivates you to work in the pharmaceutical industry
- Respond to questions with real examples
- Provide technical details
- Inquire about next steps
- Stay positive
- Be your authentic self

Considerations for a Successful Career



Technical Ability

Demonstrate technical depth and breadth

Invest in yourself, keep learning



Interpersonal Skills

Develop communication and leadership skills

Seek advice from mentors



External Networks

Join professional societies

Network

Volunteer



We're doing extraordinary things. Join us and you could be, too!

Lilly