

PROFESSIONAL EXPERIENCE

- August 2020 – now** **Lecturer**
University of Texas at Austin
Online courses in the Department of Statistics and Data Sciences
- SDS 328M – Biostatistics
 - SDS 348 – Computational Biology & Bioinformatics
 - SDS 358 – Applied Regression
- September 2015 – 2020** **Teaching Experience**
Texas State University, San Marcos, Texas
Courses in the Department of Mathematics
Instructor of record:
- MATH 2328 – Elementary Statistics
 - MATH 1319 – Mathematics for Business and Economics I
 - MATH 1315 – College Algebra (stand alone or paired with support courses)
 - MATH 1312 – College Algebra and Statistics
- Teaching Assistant:*
- MATH 2472 – Calculus II
 - MATH 2471 – Calculus I
 - MATH 1300 and 1311 – Elementary and Intermediate Algebra
- January 2018 – August 2018** **Research Assistant (qualitative research)**
with Dr Robert Sigley
Investigated the relationship between the understanding of the mean and the concept of variation for undergraduate students enrolled in an elementary statistics course
- Development of a task
 - Conducting interviews with students
- August 2016 – August 2017** **Research Assistant (quantitative and qualitative research)**
with Dr Kate Melhuish and the Teacher Development Group
Worked for the “Enhancing Mathematics Teaching and Learning in Urban Elementary Schools: A Cluster-Randomized Efficacy Trial of a Novel Professional Development Approach” project funded by the National Science Foundation, Award Number 1223074
- Data management
 - Statistical analysis (Hierarchical Linear Models)
 - Mathematical Quality of Instruction (MQI) certification and analysis of videos
 - Development of the Math Habits Instrument (application for iPad)
- March 2015 – July 2015** **Biostatistician**
CHU Brabois Hospital and INSERM, Nancy, France
Worked in the Department of Epidemiology and Clinical Research on:
- April 2013 – June 2013**
- Data management
 - Statistical analyses with SAS
 - Writing protocol and proposal

April 2012 – September 2012	Internship as a Statistical Analyst Banque Centrale du Luxembourg, Luxembourg <i>Internship in the Department of Statistics to work on a statistical study about funds of funds:</i> <ul style="list-style-type: none"> ○ <i>Creation of the 1st database concerning funds of funds</i> ○ <i>Maintenance of large data sets</i> ○ <i>Statistical analysis (PCA) with SAS</i> ○ <i>Writing articles for the official BCL quarterly report in Winter 2013</i> 🔗
September 2009 – September 2014	Private Tutor <i>Tutored middle school, high school students and undergraduates in Mathematics and Physics.</i> <i>Organized intensive programs to prepare students for different types of exams. (approximately 6 hours a week)</i>

ACADEMIC BACKGROUND

2015 – 2020	PhD in Mathematics Education Texas State University, San Marcos, Texas <i>Dissertation: Transition from Education to Profession: Experiences of Statisticians</i> <i>Chair: Dr Alexander White</i>
2010 – 2012	Master in Applied Probabilities and Statistics - Honors Université de Lorraine, Metz, France <i>Research Project: Perona-Malik Diffusion in Image Processing with Dr. Ralph Chill</i> <i>Emphasis: Statistics, Probability theory, Partial Differential Equations, Epistemology, and numerous projects with concrete applications</i>
2009 – 2010	Bachelor of Physics (Licence de Physique) - Honors Université de Strasbourg, France <i>Emphasis: Quantum mechanics, Statistical Physics, Electromagnetism and Theory of Relativity</i>
2008-2009	Bachelor of Mathematics (Licence de Mathématiques) <i>Visiting student at Trinity College Dublin, Ireland</i> <i>Emphasis: Mathematics, Irish Language and Literature.</i>
2006-2008	"Classes préparatoires" – Honors Lycée Fabert, Metz, France <i>Emphasis: Acquisition of knowledge in Mathematics, Physics, Chemistry, Engineering science, Literature and English to prepare competitive entrance exams to "Grandes Ecoles".</i>

SCHOLARLY/CREATIVE WORK

Refereed Journal Articles	Melhuish, K., Thanheiser, E. & Guyot, L. (2018). Teacher Noticing of Justifying and Generalizing in the Elementary Classroom. <i>Journal of Mathematics Teacher Education</i> . 🔗
Refereed Conferences Proceedings	Guyot, L. & White, A. (2019, November). Promoting an Authentic Experience of Statistical Practices in Statistics Education. In S. Otten, A. G. Candela, Z. de Araujo, C. Haines, & C. Munter (Eds.), <i>Proceedings of the forty-first annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education (PME-NA)</i> (pp. 421-425). 🔗

Guyot, L., Walker, A., & White, A. (2018, July). Challenges for Independent Student Projects: A Perspective of the Teacher. In M. A. Sorto, A. White, & L. Guyot (Eds.), *Looking back, looking forward: Proceedings of the Tenth International Conference on Teaching Statistics (ICOTS10, July, 2018), Kyoto, Japan*. Voorburg, The Netherlands: International Statistical Institute. [🔗](#)

White, A., Guyot, L., & Walker, A. (2018, July). Data in Search of a Context: An Icebreaker Activity. In M. A. Sorto, A. White, & L. Guyot (Eds.), *Looking back, looking forward: Proceedings of the Tenth International Conference on Teaching Statistics (ICOTS10, July, 2018), Kyoto, Japan*. Voorburg, The Netherlands: International Statistical Institute. [🔗](#)

Fagan, J., Melhuish, K. M., Thanheiser, E., Fasteen, J., Guyot, L., Rosencrans, B. (2017). Connecting teachers' buy-into professional development with classroom habits and practices. In E. Galindo & J. Newton (Eds.), *Proceedings of the 39th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 459-462). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators. [🔗](#)

Thanheiser, E., Rosencrans, B., Melhuish, K. M., Fagan, J., Guyot, L. (2017). Increasing student cognitive engagement in the math classroom through sustained professional development. In E. Galindo & J. Newton (Eds.), *Proceedings of the 39th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 478-482). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators. [🔗](#)

Conferences Proceedings

Guyot, L. (2019, June). *Transition between Education and Profession: Experiences of Statisticians*. Presentation made at the 51^{eme} Journées de la Statistique. Paper in the program. Nancy, France. [🔗](#)

Guyot, L. (2018, June). *Promoting an Authentic Experience of Statistical Practices in Statistics Education*. Presentation made at the 50^{eme} Journées de la Statistique. Paper in the program. Paris, France. [🔗](#)

Conferences Presentations

Guyot, L. (2021, February). *Learning in Transition to the Workplace: Perspectives from the Statistical Community and Implications*. Presentation made at the Conference of Statistical Practice. Online.

Guyot, L. (2019, October). *Transition from Education and Profession: Experiences of Statisticians*. Presentation made at the Women in Statistics and Data Science conference. Bellevue, WA.

Guyot, L. (2019, July). *Transition from Education to Profession: Experiences of Statisticians*. Speed presentation and poster at the Joint Statistical Meetings. Denver, CO.

Sigley, R. & Guyot, L. (2019, July). *Studying the Relationship between Students' Perception of the Mean and their Understanding of Variance*. Speed presentation and poster at the Joint Statistical Meetings. Denver, CO.

Guyot, L. & White, A. (2019, May). *What do statisticians do?* Breakout session presented twice at the US Conference on Teaching Statistics. State College, PA.

Guyot, L. (2019, February). *Transition from Education and Profession: Experiences of Statisticians*. Presentation made at the Conference of Statistical Practice. New Orleans, LA.

Abili, M. & Guyot, L. (2018, November). *Teaching Statistics: A Comparison on Topics and Approaches Across Disciplines*. Presentation made at the Tenth International Research Conference for Graduate Students. San Marcos, TX.

Guyot, L. (2018, April). *Promoting an Authentic Experience of Statistical Practices in Statistics Education*. Presentation made at the Conference of Texas Statisticians. San Antonio, TX.

Sorto, M. A., Bower, R., Guyot, L., Akbuga, E., Song, Z., & Webre, B. (2017, April). *Las Matemáticas en Nuestras Aulas: Bilingual Strategies in Secondary Classrooms*. Presentation at the 2017 National Council of Teachers of Mathematics Annual Meeting. San Antonio, TX.

Shaughnessy, M., Melhuish, K., Thanhesier, E., Fredericks, J., Rosencrans, B., Fagan, J., & Guyot, L. (2017, March). *The Math Habits & Routines Classroom Observation Tool: Connecting teacher moves and student reasoning*. Presentation at the Teachers Development Group Leadership Seminar. Portland, OR.

Invited Talks

Guyot, L. (2021, March). *Learning in Transition to the Workplace: Perspectives from the Statistical Community and Implications*. Presentation made at the SDS Seminar Series, The University of Texas at Austin.

Guyot, L. (2019, October). *Discussion: Teaching Statistics across the Campus*. Hosted discussion at the Statistics Seminar, Texas State University.

Guyot, L. (2019, September). *Conferences and Being Part of the Statistics Community*. Presentation made at the Statistics Seminar, Texas State University.

Sigley, R., Guyot, L., & White, A. (2018, September). *Studying the Relationship Between Students' Perception of the Mean and their Understanding of Variance*. Presentation made at the Statistics Seminar, Texas State University.

Guyot, L., Walker, A., & White, A. (2018, April). *Challenges for Independent Student Projects: A Perspective of the Teacher*. Presentation made at the Statistics Seminar, Texas State University with guest students.

Sigley, R. & Guyot, L. (2018, April). *Exploring the Relationship Between Mean Understanding and Variability*. Presentation made at the Statistics Seminar, Texas State University.

Guyot, L. (2018, March). *What do statisticians do?* Presentation made at the Statistics Seminar, Texas State University.

Guyot, L. (2017, November). *Statistical Practice in the Classroom*. Presentation made at the Statistics Seminar, Texas State University.

Melhuish, K., Fagan, J., Guyot, L. (2017, September). *Exploring the efficacy of the Mathematics Studio Model Professional Development*. Presentation made at the Math Education Seminar, Texas State University.

White, A., Lesser, L. M., Straughn, M., Guyot, L. (2016, October). *Multiple Perspectives of the Mean: Making Connections between Basic and Advanced Statistical Content*. Presentation made at the Statistics Seminar, Texas State University.

Posters

Guyot, L. (2019, March). *What do Statisticians do?* Poster presented at the Women in Science and Engineering conference. San Marcos, TX.

Guyot, L. (2018, July). *What do statisticians do?* Poster presented at the Tenth International Conference on Teaching Statistics. Kyoto, Japan.

Guyot, L. (2018, April). *What do statisticians do?* Poster presented at the Conference of Texas Statisticians. San Antonio, TX.

Guyot, L., Melhuish, K. M., Fagan, J. (2017). Effect of Teachers' Participation in a Professional Development on Student Achievement: A Longitudinal Large-Scale Study. In E. Galindo & J. Newton (Eds.), *Proceedings of the 39th Annual Meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (pp. 537). Indianapolis, IN: Hoosier Association of Mathematics Teacher Educators. [🔗](#)

SERVICE / LEADERSHIP

- **Co-Editor:**
 - ICOTS, International Conference on Teaching Statistics (Spring / Summer 2018)
- **Session Chair:**
 - CSP, Conference on Statistical Practice (February 2019): Communicating with Stakeholders
- **Committee Member:**
 - Certificate in Scientific Computation & Data Sciences
 - Certificate in Applied Statistical Modeling
- **Reviewer / Referee:**
 - PME-NA, North American Chapter of the International Group for the Psychology of Mathematics Education (2017, 2019)
 - IRC, International Research Conference for Graduate Students (2019)
 - ICOTS, International Conference on Teaching Statistics (2018)
- **Guest lecturer:**
 - MATH 2311 – Principles of Mathematics I (October 26th, 2018)
 - MATH 2312 – Informal Geometry (October 4th, 2017)

- MATH 2472 – Calculus II (February 20th and March 10th, 2017)
- **Volunteer:**
 - Running the Statistics Education/History booth at the Joint Statistical Meetings (July 2019)
 - Graduate Student Panelist, Mathematics Department Open House (November 2018)
 - Assessing K-2 and 2nd grade children's mathematical thinking at a local elementary school under the supervision of Dr Jessica Bishop by administering formative assessments (in the form of a clinical interview) and analyzing assessment data to identify trends and patterns (Spring 2017, Spring 2018)
- **Organization Member:**
 - American Statistical Association (ASA)
 - American Mathematical Society (AMS)
 - Mathematical Association of America (MAA)
 - National Council of Teachers of Mathematics (NCTM)

SCHOLARSHIPS / AWARDS

- **Scholarships/Fellowships:**
 - Student Government Scholarship – \$4,000 (Year 2018-2019, Year 2019-2020)
 - The Graduate College Scholarship - Science & Engineering – \$2,000 (Year 2019-2020)
 - Women in Science and Engineering (WiSE) Scholarship – \$1,000 (Fall 2019)
 - Ross & Sarah Wayment Endowed Scholarship – \$750 (Fall 2019)
 - The Graduate College Doctoral Research Support Fellowship – \$5,000 (Spring 2019)
- **Awards:**
 - Travel Award for the Women in Statistics and Data Science conference – \$400 (2019)
 - Recognition for Academic Excellence at the Doctoral Level (2018, 2019)
 - Rising Scholarly Travel Activity and Research (S.T.A.R) grant – \$1,000 (2018, 2019)

TECHNOLOGY

- **Documents:** MS Office, Adobe Acrobat DC, LaTeX
- **Statistical Software:** R, SAS, SPSS, HLM software
- **Instructional Software:** Fathom, Tuva labs, Desmos, Geometer's Sketchpad, Canvas
- **Online Teaching:** Zoom, Panopto
- **Online Homework Platform:** Gradescope, Sapling, MyMathLab, ALEKS, ConnectMath
- **Programming Language:** Python, SQL, Fortran

LANGUAGES

- **French:** native comprehension, composition
- **English:** advanced comprehension, composition
- **German and Spanish:** some reading, listening comprehension