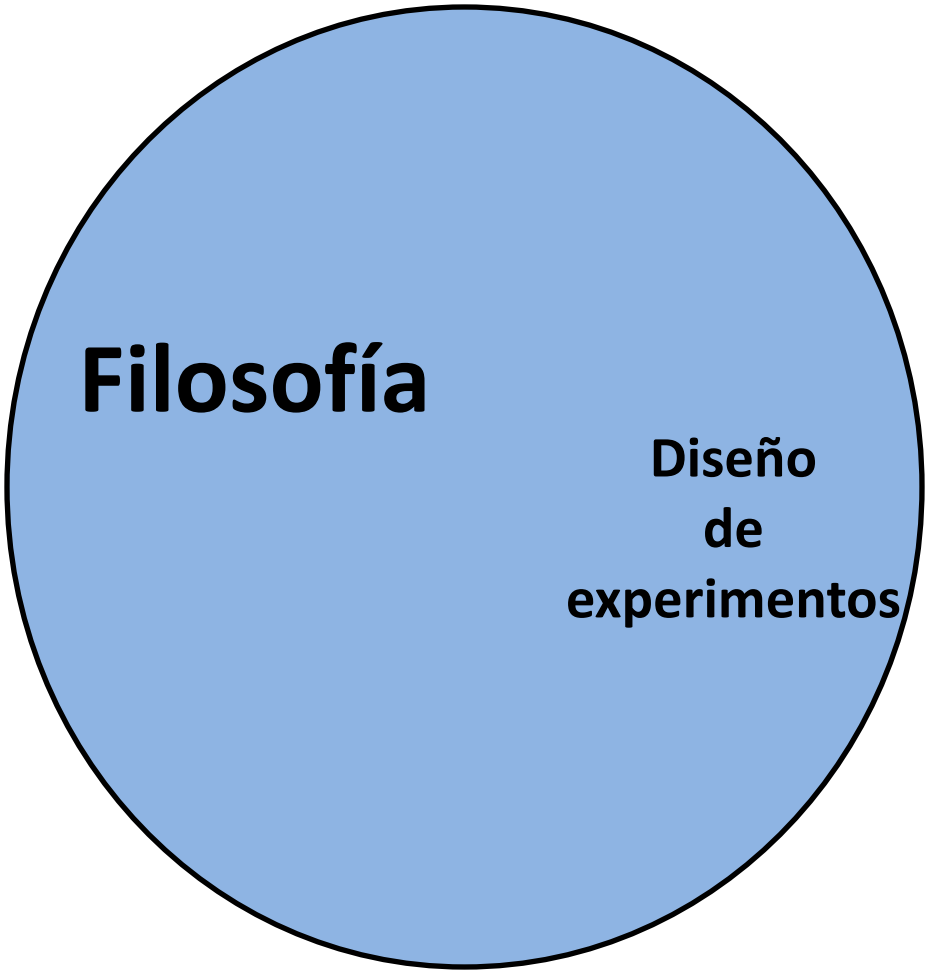
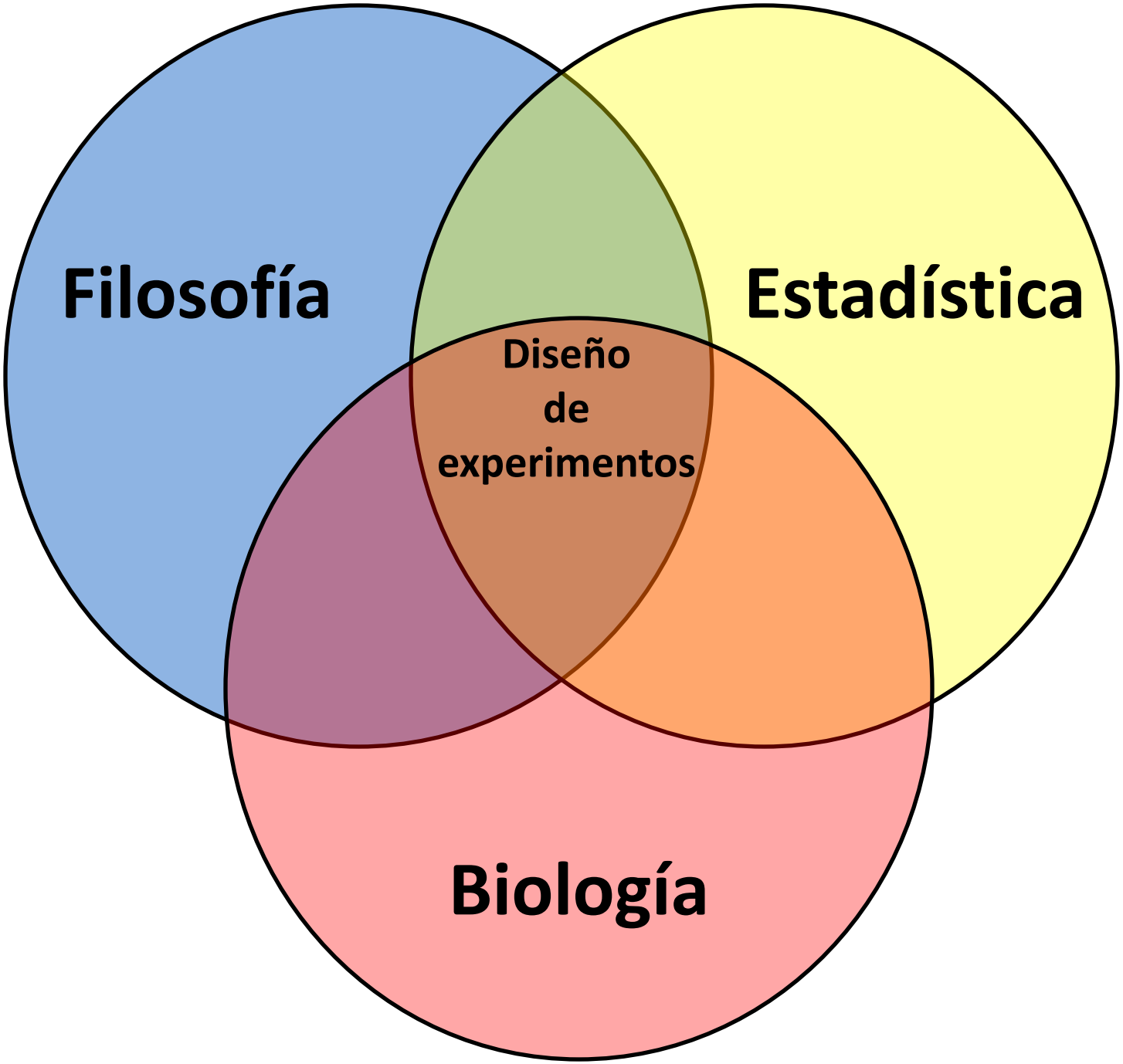
Introducción


Estadística
Diseño
de
experimentos


Diseño
de
experimentos
Biología


Filosofía
Diseño
de
experimentos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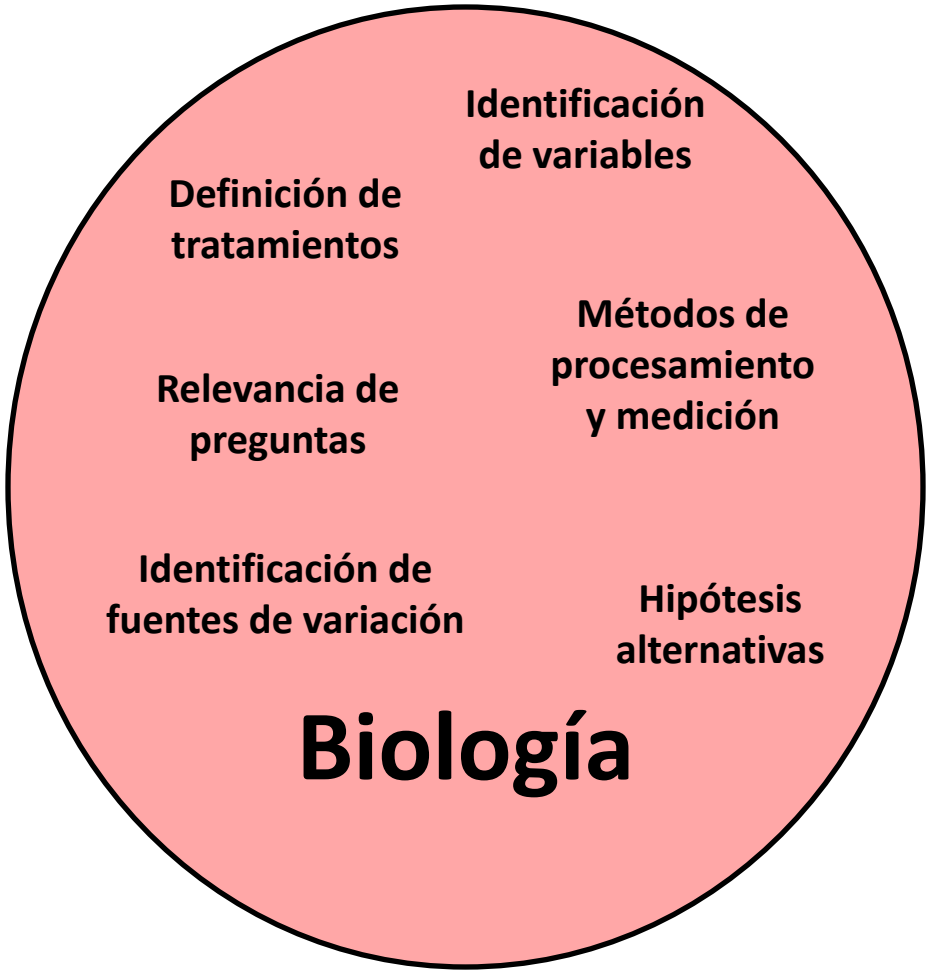
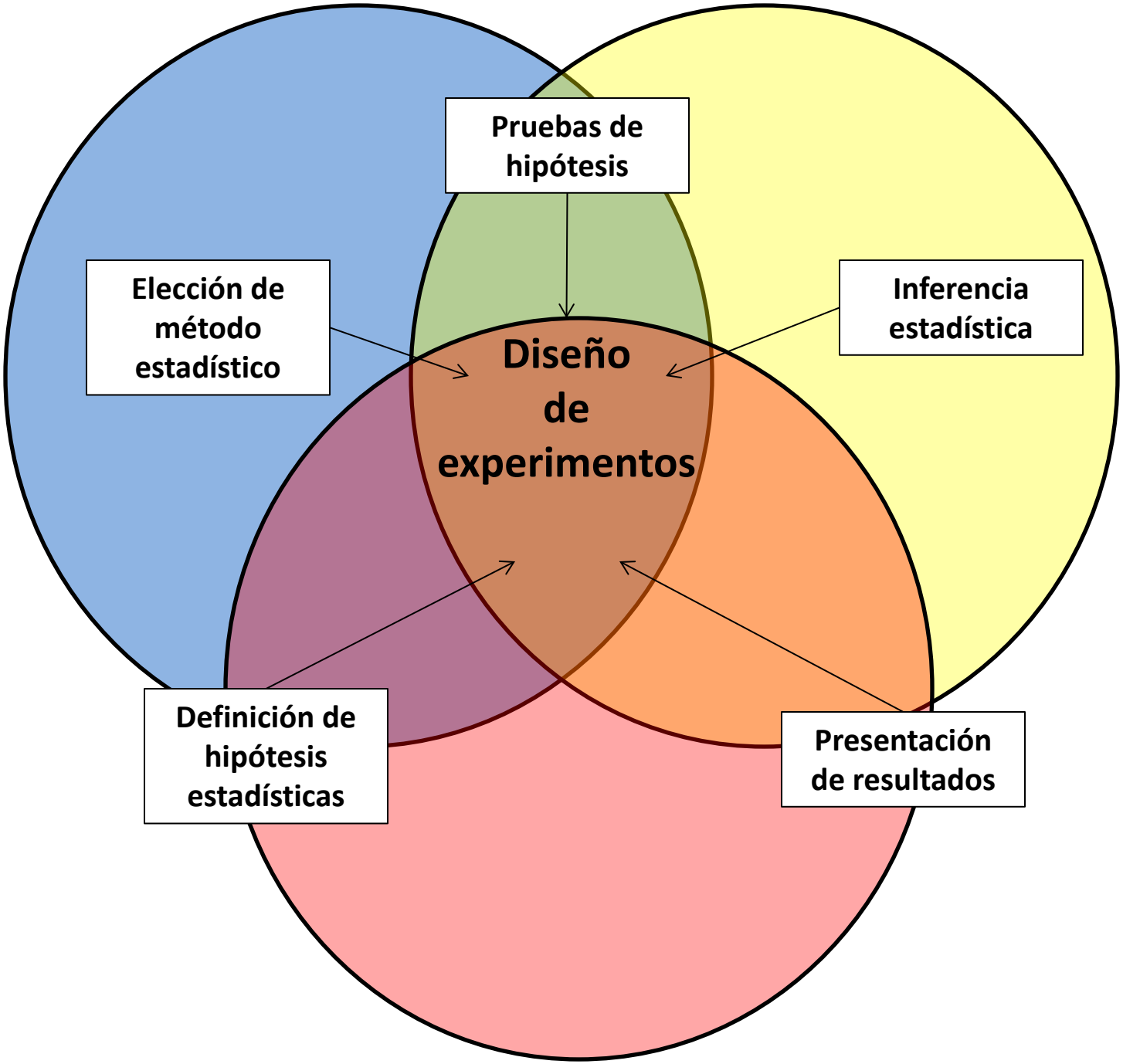
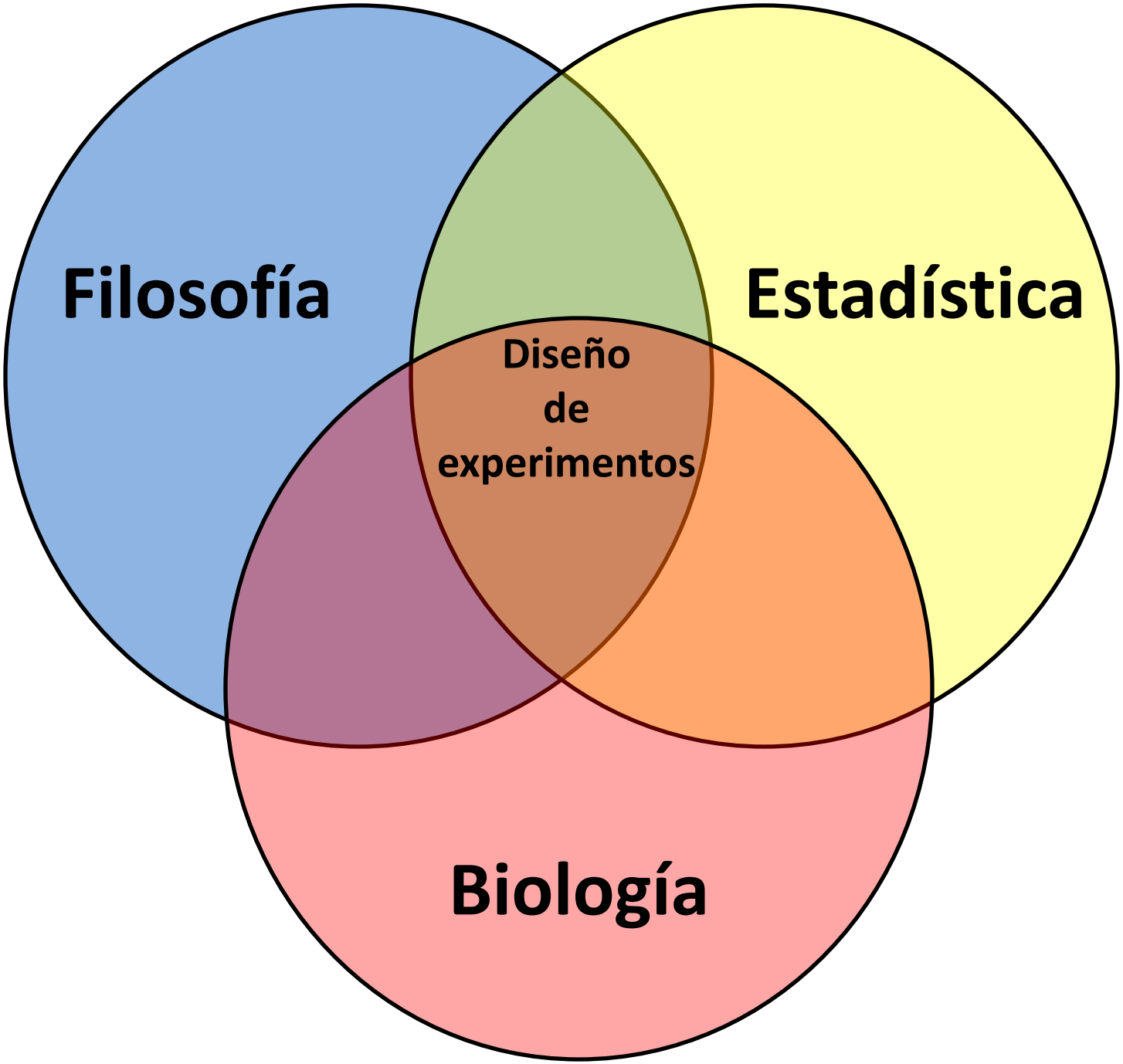
Estadística
Evidente!


Identificación de variables
Definición de tratamientos
Métodos de procesamiento y medición
Relevancia de preguntas
Identificación de fuentes de variación
Hipótesis alternativas
Biología


Aplicación de método científico
Elaboración de hipótesis científica
Filosofía
Selección de controles (Lógica)
Interpretación de resultados: Ffía de la probabilidad
Peso de la evidencia y toma de decisiones


Pruebas de hipótesis
Elección de método estadístico
Inferencia estadística
Diseño de experimentos
Definición de hipótesis estadísticas
Presentación de resultados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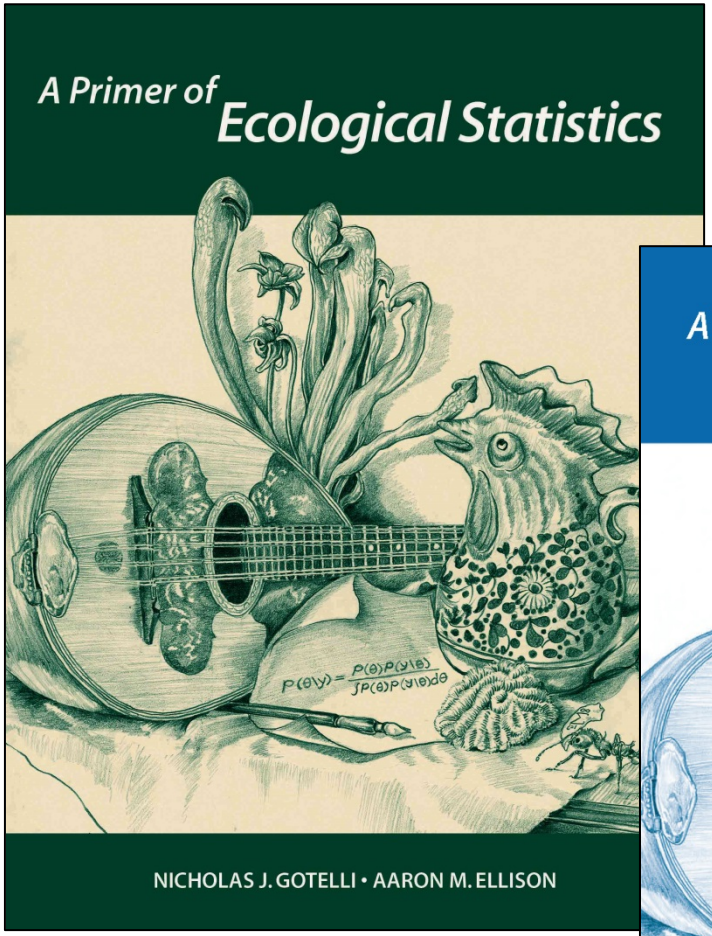
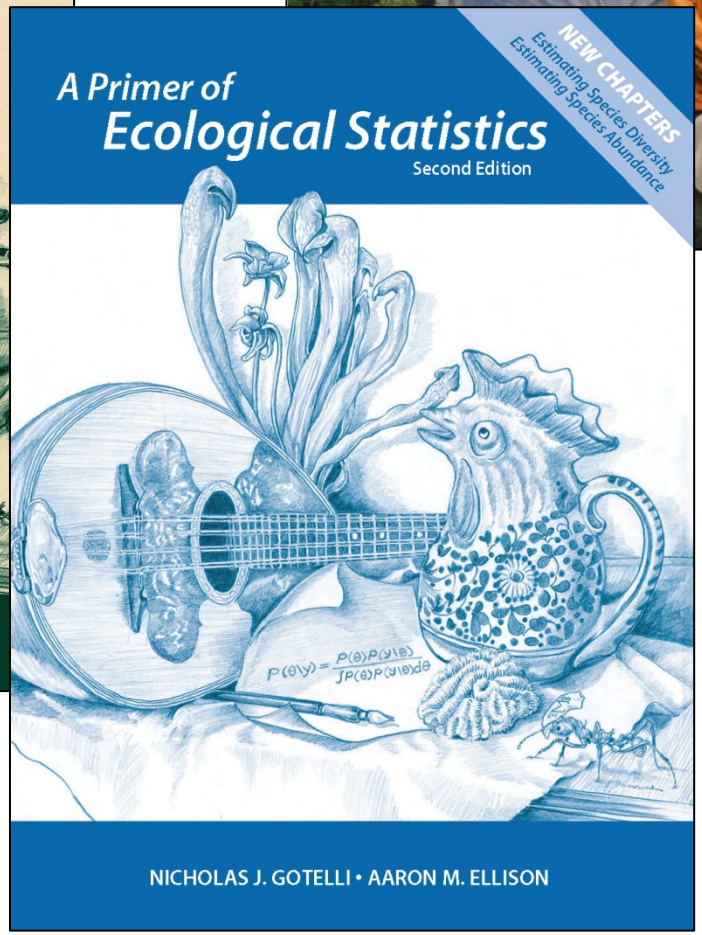
Aaron Ellison
Harvard Forest

Nicholas Gotelli
University of Vermont





Brief Contents

		Variable independiente	
		Categórica	**Contínua**
Variable Respuesta	**Categórica**	Tablas de contingencia	Regresión logística
	Contínua	ANOVA	Regresión lineal

Gotelli & Ellison (2004)

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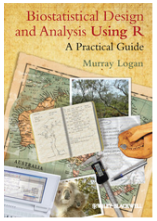

Biostatistical Design and Analysis Using R: a practical guide

Downloadable Resources

As an alternative to the individual downloads listed below, the entire collection can be downloaded from this link.
NOTE: some of the code snippets may rely on other packages (particularly the *car* package), and in some instances, I have forgotten

Quick grabs

- Link to publishers site
- all data and scripts
- Biology package (Win)
- R refcard

Other biostatistics and/or R books

- Experimental Design and Data Analysis for Biologists
- Biometry: the principles and practice of statistics in biological research
- Mixed Effects Models and Extensions in Ecology with R
- A beginners guide to R
- Data Analysis and Graphics Using R - An Example-Based Approach
- R Graphics
- An R and S-PLUS Companion to Applied Regression

Data sets

The following tree contains links to each of the data sets used in the book and the data sets therein are sequentially organized within c
than provide an option for downloading. Once a text file is displayed in the browser, it can be downloaded by navigating to the File menu

- Chapter 1 - Introduction to R
- ⊞ Chapter 2 - Data sets
- Chapter 3 - Introductory statistical principles
- ⊞ Chapter 4 - Sampling and experimental design with R
- ⊞ Chapter 5 - Graphical data presentation
- ⊞ Chapter 6 - Simple hypothesis testing
- Chapter 7 - Introduction to linear models
- ⊞ Chapter 8 - Correlation and simple linear regression
- ⊞ Chapter 9 - Multiple and curvilinear regression
- ⊞ Chapter 10 - Single factor classification (ANOVA)
- ⊞ Chapter 11 - Nested ANOVA
- ⊞ Chapter 12 - Factorial ANOVA
- ⊞ Chapter 13 - Unreplicated factorial designs
- ⊞ Chapter 14 - Partly nested designs
- ⊞ Chapter 15 - Analysis of covariance
- ⊞ Chapter 16 - Simple frequency analysis
- ⊞ Chapter 17 - Generalized linear models

R code snippets

The following tree contains links to sets of R code scripts mirroring those used throughout the book. R code snippets are sequentially
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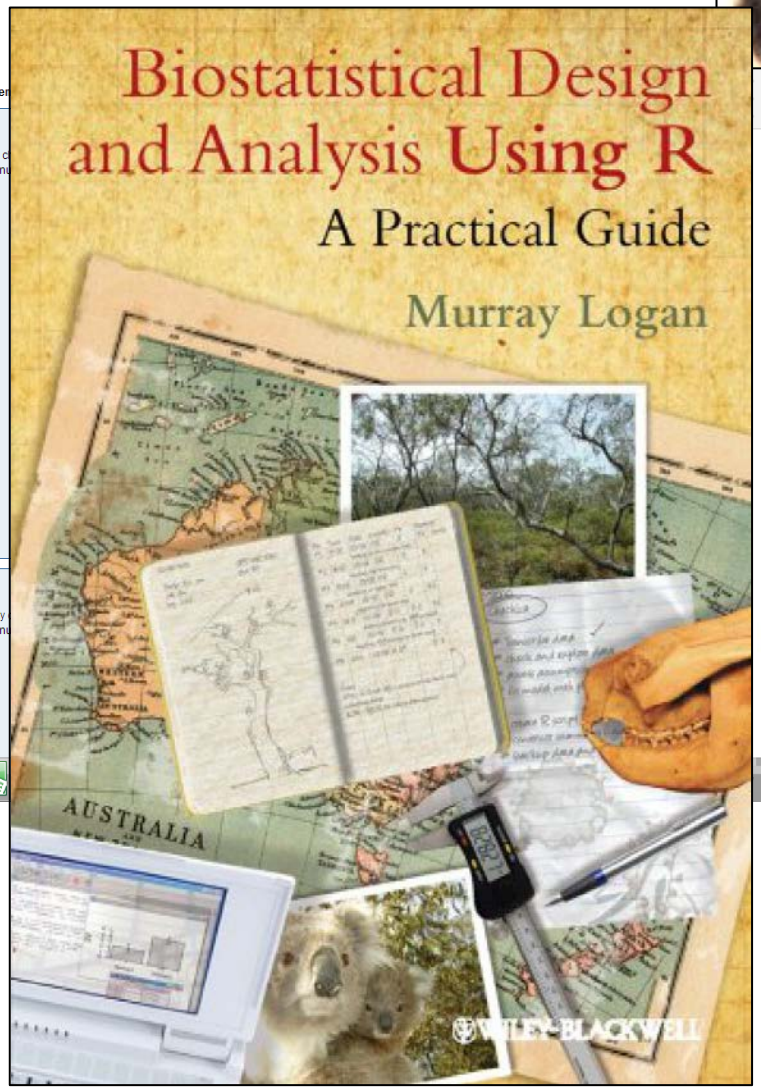
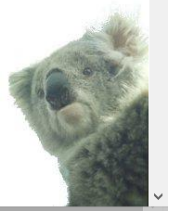


Packages used
Additional resources
Errata



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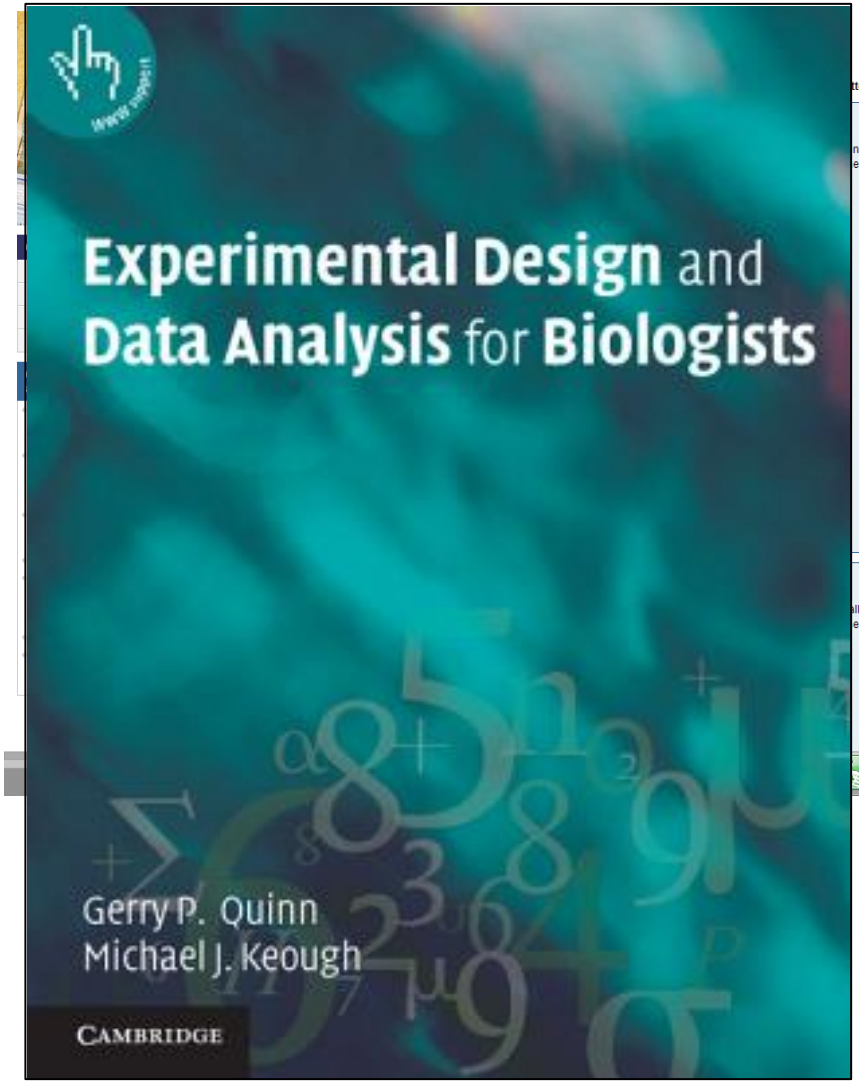

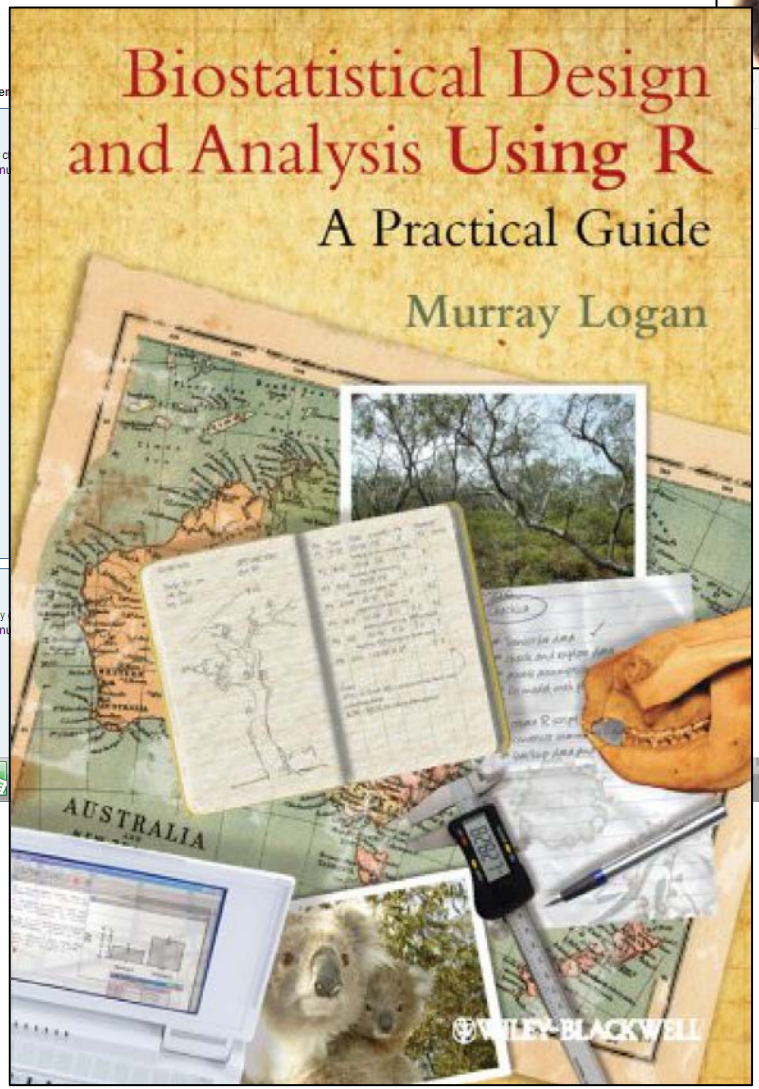

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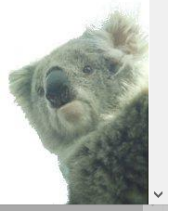

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Evaluación del curso

Actividad	Valor
Seguimiento	50% Exposición y análisis de lecturas
Talleres	50% 5 talleres de 10% C/U

Lo que hacemos los científicos

Video: La teoría de Einstein