## Math 362: Mathematical Statistics II

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## Chapter 7. Inference Based on The Normal Distribution

- § 7.1 Introduction
- § 7.2 Comparing  $\frac{\overline{Y}-\mu}{\sigma/\sqrt{n}}$  and  $\frac{\overline{Y}-\mu}{S/\sqrt{n}}$
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- § 7.4 Drawing Inferences About  $\mu$
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## Plan

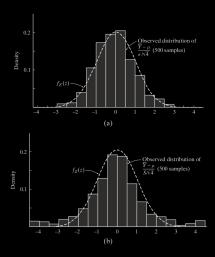
§ 7.1 Introduction

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- § 7.3 Deriving the Distribution of  $\frac{\overline{Y} \mu}{S/\sqrt{N}}$
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Gosset, known as "Student"



Ref. Student's t distribution comes from William Sealy Gosset's 1908 paper in Biometrika under the pseudonym "Student".

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- V2 Another version is that Guinness did not want their competitors to know that they were using the t-test to determine the quality of raw material





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