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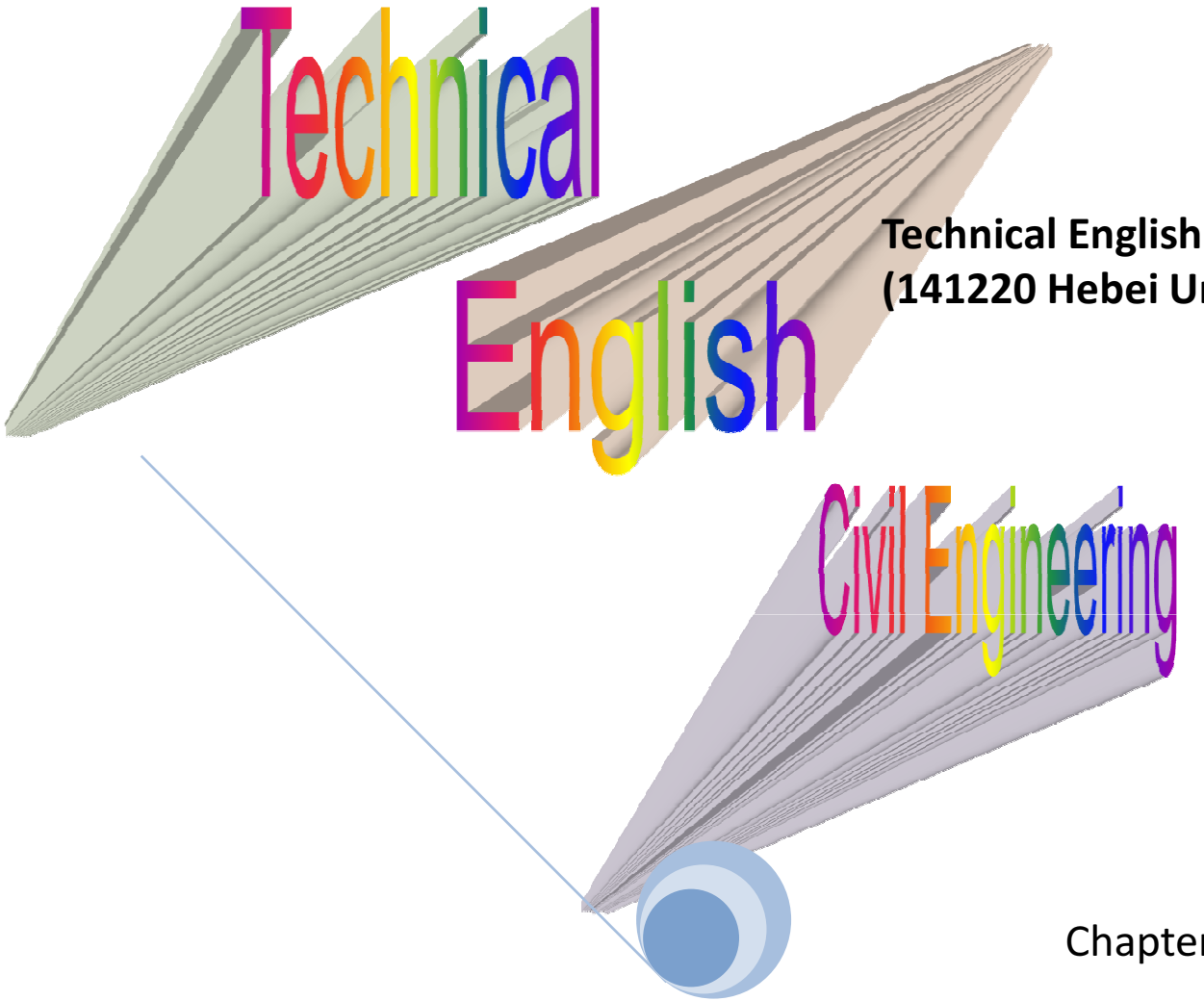

Technical English in Civil Engineering
(141220 Hebei University)

Chapter 01 Listen

Dr. Xingzheng Wu 吴兴征

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Part A Communication skills of technical English in civil engineering
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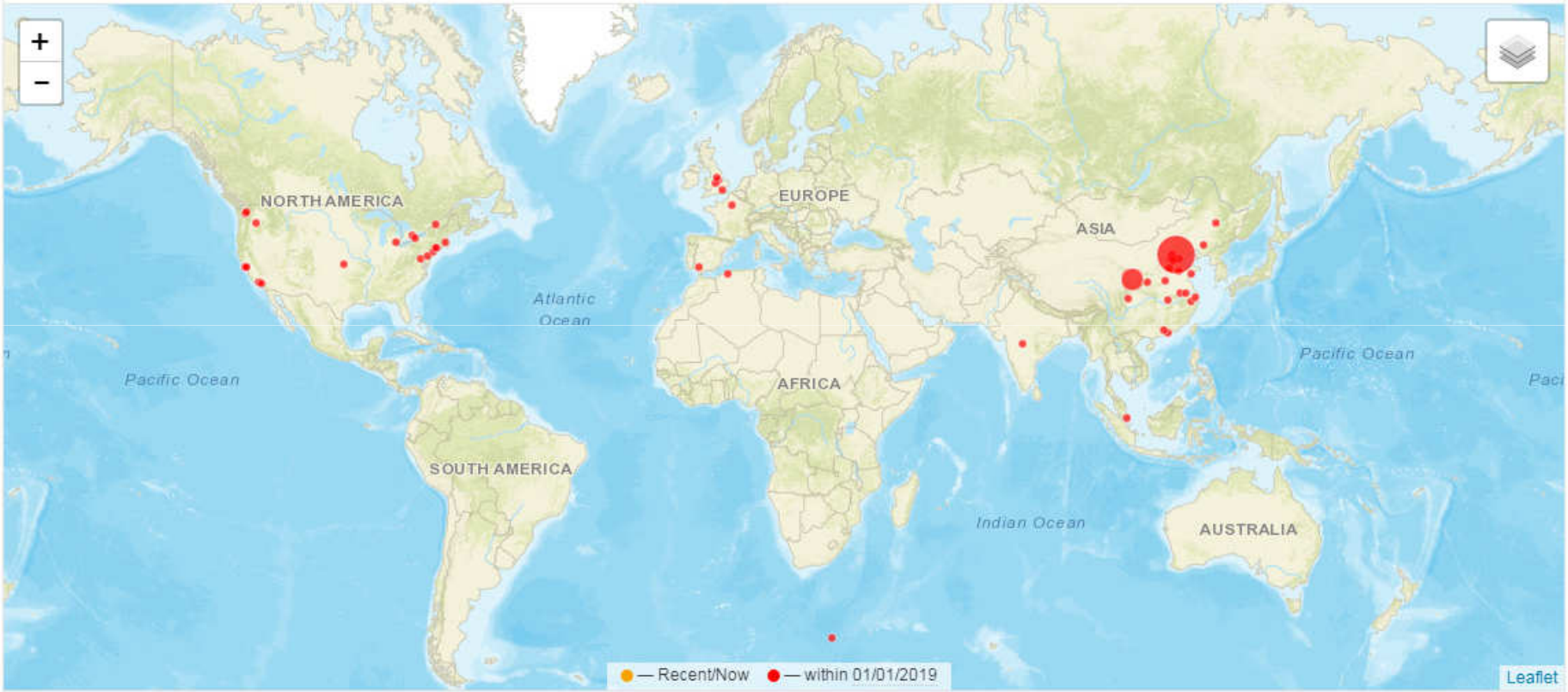

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I am the Mr Right

- Background for all areas in civil engineering

- Graduated from/in Shandong Univ.

- IWHR
- SCRI
- Dundee & Newcastle

Editorial board membership

- With more than 10 international journals
- Active reviewer for more than 30 international journals

Technical English can improve the learning of the common English

IELTS testing Writing section

Visiting the flood prone area, inquire the flood damage or economic losses

Visit a bridge, span is, steel materials, dual-way four lanes

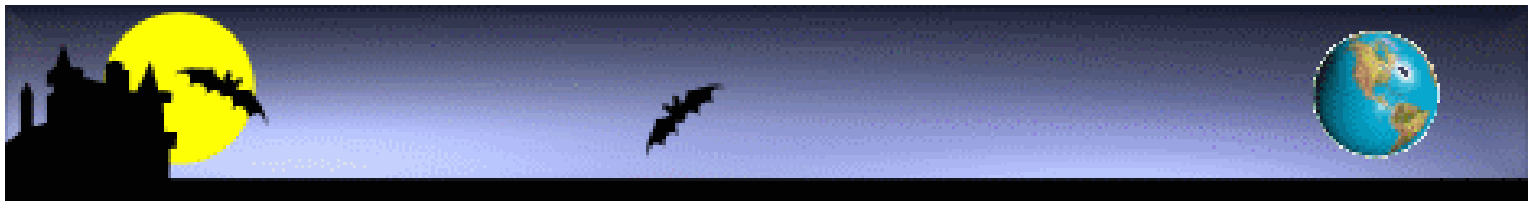
What can you achieve by this course

- Can not solve everything

- The interest is key important
- Chap 00 Jack Ma holds lecture at Moscow State University 2017 E:\VideoForTECE141220
- https://www.bilibili.com/video/av93048130?fromvsogou=1&bsource=sogou
- 44-48.00 分钟位置提及语言的重要性
- CCTV9 Yang Rui; CGTN China global television network
- Xin Liu's speech 刘欣23年前英语演讲比赛夺冠视频（shown later on）
- The technique is useful, for instance , basic technical vocabulary, numbers and mathematical expressions, physical quantities and units, basic concepts for the presentation of technical interrelationships as well as basic grammatical structures of English like verb tenses, passive constructions and relative clauses.

What can you achieve by this course

- Work out your first ever CV in English
- Read quite a lot materials related to Dr Wu's working experiences in the UK (footprint on the globe)
- English-related tools
- Work together with some other students with a single task (group work)



- Ted Talk on you phone, TouTiao
- BBC 频道的 《Super Engineering》
- Discovery 频 道 的《Buildings and Life》
- CCTV 纪录频道的《One Road, One Belt》等

- Chap 00 剑桥论文引发新冠病毒起源热议，我们向作者提了几个问题 E:\VideoForTECE141220

- HW01 CV in PDF format and Introduction yourself (mp3)
- HW02 Description of a plot / graph
- HW03 Translation from Chinese(Abstract) Wu's publication to English
- HW04 Translation from English (Abstract) Wu's publication to Chinese
- HW05 Group works

- 40% Routine works
- 60% Final examination

Refer to 141220 HW01 writing01.pdf

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Implementing statistical fitting and reliability analysis for geotechnical engineering problems in R

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ABSTRACT

Reliability analysis and multivariate statistical fitting are valuable techniques that enhance the scientific basis of regulatory decisions in geotechnical problems. This study introduces the use of several R packages specifically developed to assist risk assessors in their geotechnical projects. Firstly, the fitting of parameterised models either to the distribution of observed samples or to characterise the dependence structures among variables, or both is presented. Secondly, the most popular reliability analysis methods, such as the first- and second-order reliability methods and the random sampling simulation method, are implemented in R. The efficiency of implementing these classical approximation methods is demonstrated through two example problems.

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Soil; probabilistic; dependence; fitting; multivariate; R

The end

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