



# Summer School on Bidirectional Transformations

*Jeremy Gibbons*

*SSBX, Oxford, July 2016*

# 1. Overview

- welcome and administrivia
- intro to BX
- effectful BX and entangled state

## 2. Lecturers



**Anthony Anjorin**

*BX with Triple Graph Grammars*



**Zhenjiang Hu**

*Putback-based BX in BiGUL*



**Richard Paige**

*Engineering BX*

**Martin Hofmann**  
*Modular Edit Lenses*



**Mike Johnson**  
*Mathematical Foundations of BX*



**The TLCBX Team**  
*Introduction, TLCBX Results, Conclusion*



### 3. Timetable of lectures

	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>
09:00–10:30	BX	ZH	MJ	ZH	MJ
10:30–11:00			<i>coffee</i>		
11:00–12:30	MJ	RP	ZH	AA	BX
12:30–14:00			<i>lunch</i>		
14:00–15:30	AA	MH	BX	RP	
15:30–16:00			<i>coffee</i>		
16:00–17:30	MH	AA	RP	MH	

## 4. Meals

**breakfast:** in the Deneke Dining Hall, for residents

**lunch:** in the Deneke Dining Hall, for everyone

**banquet:** at Green Templeton College (included)

**other dinners:** as social events (not included)

## 5. Social events

**Sunday eve:** Rose & Crown

**Monday eve:** punting

**Tuesday eve:** DIY

**Wednesday eve:** banquet

**Thursday eve:** walking tour

**Friday pm:** museums?

## **Monday – punting, 6pm onwards, to Victoria Arms**





## Tuesday – Shakespeare and music

**OP**  
OXFORD  
PLAYHOUSE

Coming up from  
Oxford Playhouse ...

Tuesday 19 to Sunday 31 July

### THE TWO GENTLEMEN OF VERONA

PRESENTED BY THE GLOBE ON TOUR  
AT THE BODLEIAN OLD SCHOOLS' QUAD

ENERGETIC AND VERY FUNNY  
★★★★★ Stage

01865 305305  
www.oxfordplayhouse.com



# the Tempest

HELL IS EMPTY AND ALL  
THE DEVILS ARE HERE

7.30pm | 18th - 30th July 2016  
Oxford Castle Unlocked Courtyard  
oxfordcastleunlocked.co.uk



# HAMLET

UNIVERSITY PARKS  
13 JULY - 13 AUGUST



# A MIDSUMMER NIGHT'S DREAM

23 JUNE - 30 JULY



William Shakespeare

# Love's Labour's Lost



love me  
love me not

Director  
Nicholas Green

Composer  
Nicholas Lloyd Webber

★★★★★  
The Oxford Times 2014 (As You Like It)

★★★★★  
The Oxford Times 2016 (Twelfth Night)

"A perfect evening"  
The Times 2010 (Private Lives)

Oxford Shakespeare Company  
www.osctheatre.org.uk

# Twelfth Night

Trinity College Gardens

19 - 29 July at 8pm  
& 2.30pm on 23rd, no perf 24th

Tickets available on the door or from  
Oxford Playhouse in advance






## Tuesday – garden games



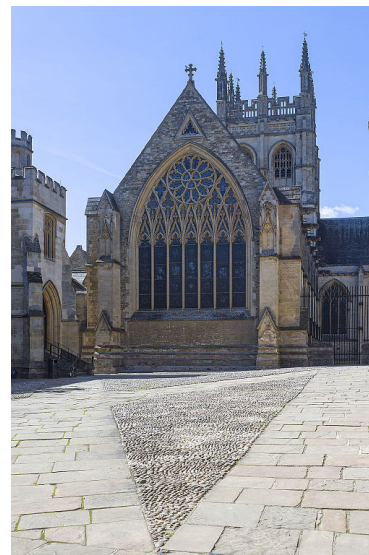


**Wednesday – banquet at GTC, drinks 6.30pm, eat 7pm**





## Thursday – walking tour, 6pm onwards



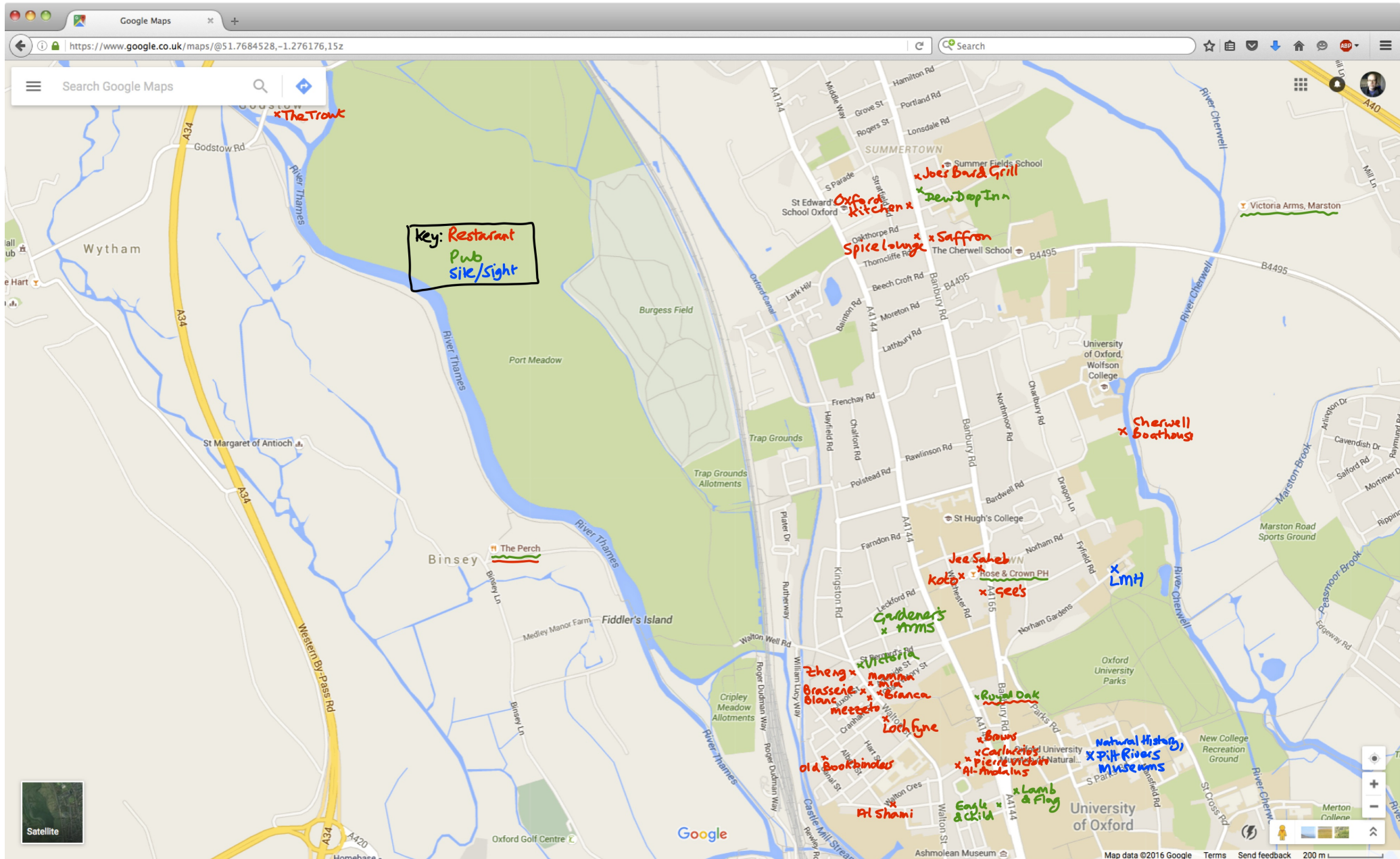


## Friday – museums?

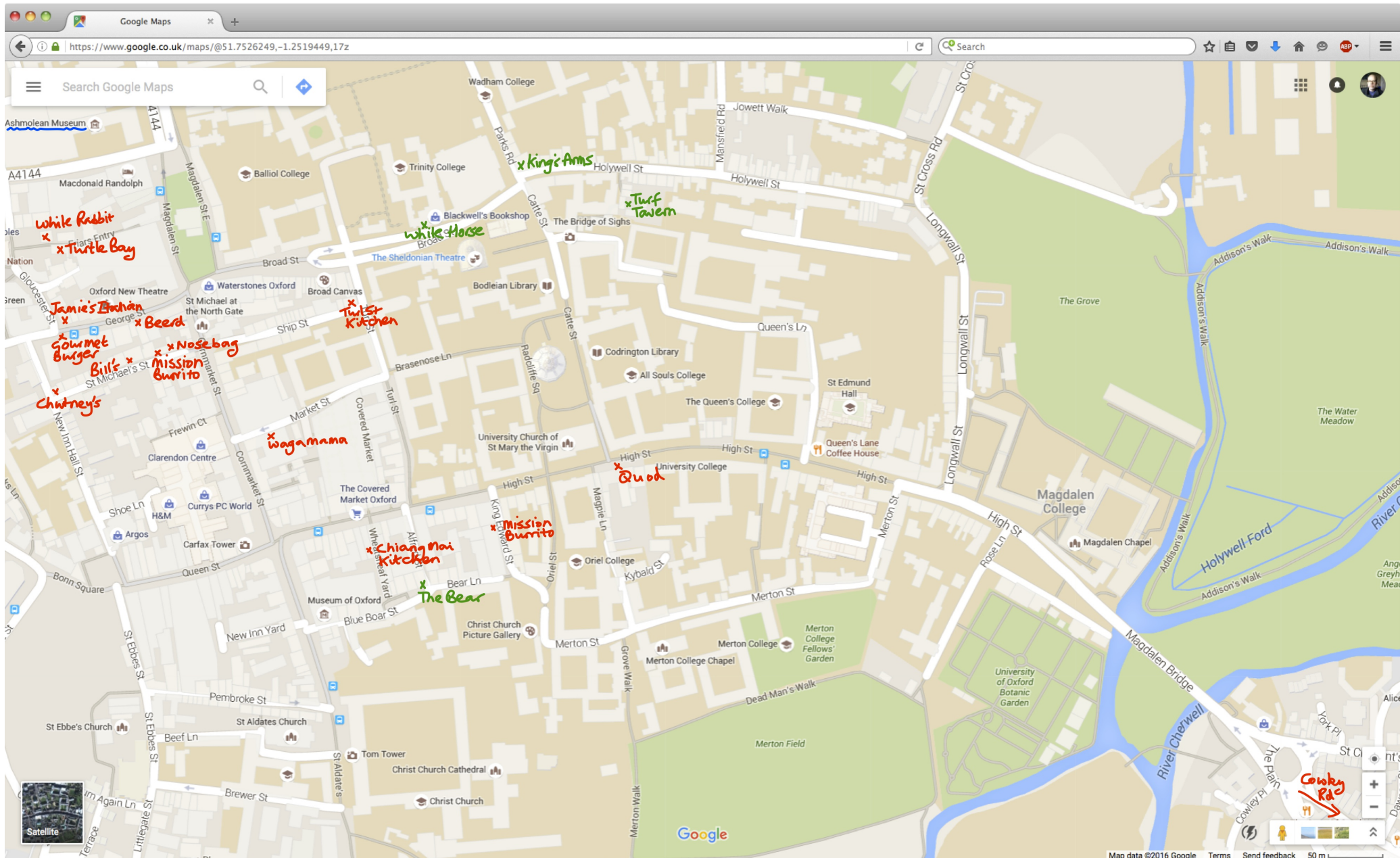




## 6. Restaurants in North Oxford



# Restaurants in town



	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>
09:00–10:30	BX	ZH	MJ	ZH	MJ
10:30–11:00		<i>coffee</i>			
11:00–12:30	MJ	RP	ZH	AA	BX
12:30–14:00		<i>lunch</i>			
14:00–15:30	AA	MH	BX	RP	
15:30–16:00		<i>coffee</i>			
16:00–17:30	MH	AA	RP	MH	